FORM 3

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL							**1. WELL NAME and NUMBER** NBU 921-20D4BS
2. TYPE OF WORK DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○							**3. FIELD OR WILDCAT** NATURAL BUTTES
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO							**5. UNIT or COMMUNITIZATION AGREEMENT NAME** NATURAL BUTTES
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.							**7. OPERATOR PHONE** 720 929-6587
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217							**9. OPERATOR E-MAIL** mary.mondragon@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 0575		**11. MINERAL OWNERSHIP** FEDERAL ◉ INDIAN ○ STATE ○ FEE ○					**12. SURFACE OWNERSHIP** FEDERAL ○ INDIAN ◉ STATE ○ FEE ○
13. NAME OF SURFACE OWNER (if box 12 = 'fee')							**14. SURFACE OWNER PHONE (if box 12 = 'fee')**
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')							**16. SURFACE OWNER E-MAIL (if box 12 = 'fee')**
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Tribe		**18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS** YES ◉ (Submit Commingling Application) NO ○					**19. SLANT** VERTICAL ○ DIRECTIONAL ◉ HORIZONTAL ○

20. LOCATION OF WELL	**FOOTAGES**	**QTR-QTR**	**SECTION**	**TOWNSHIP**	**RANGE**	**MERIDIAN**
LOCATION AT SURFACE	963 FNL 1252 FWL	NWNW	20	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	798 FNL 698 FWL	NWNW	20	9.0 S	21.0 E	S
At Total Depth	798 FNL 698 FWL	NWNW	20	9.0 S	21.0 E	S

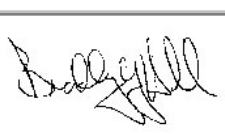
21. COUNTY UINTAH	**22. DISTANCE TO NEAREST LEASE LINE (Feet)** 698	**23. NUMBER OF ACRES IN DRILLING UNIT** 1600
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 450	**26. PROPOSED DEPTH** MD: 10403 TVD: 10330
27. ELEVATION - GROUND LEVEL 4794	**28. BOND NUMBER** WYB000291	**29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE** Permit #43-8496

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

☑ **WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER**	☑ **COMPLETE DRILLING PLAN**
☐ **AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)**	☐ **FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER**
☑ **DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)**	☑ **TOPOGRAPHICAL MAP**

NAME Danielle Piernot	**TITLE** Regulatory Analyst	**PHONE** 720 929-6156
SIGNATURE	**DATE** 07/22/2009	**EMAIL** danielle.piernot@anadarko.com

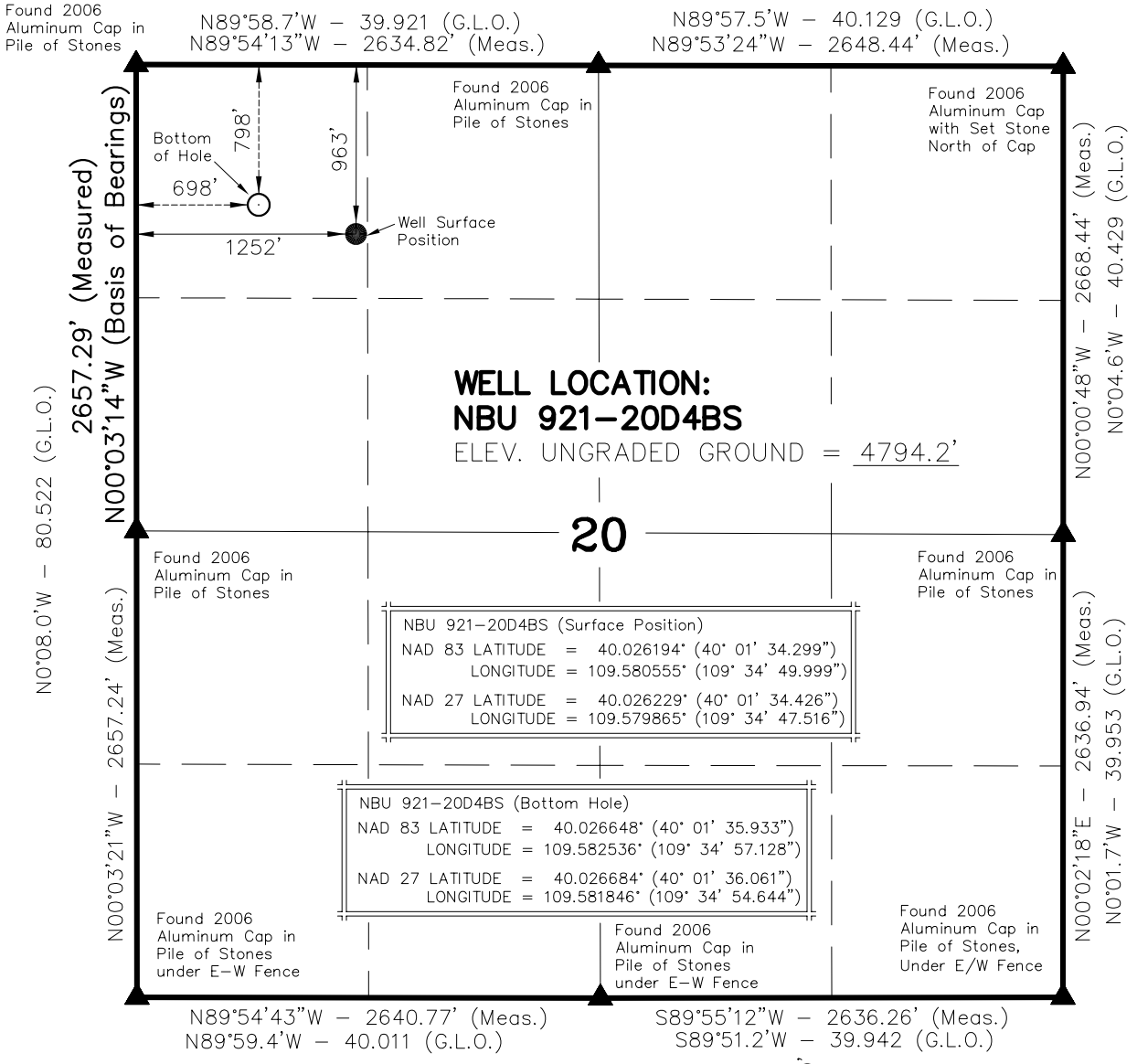
API NUMBER ASSIGNED 43047505970000	**APPROVAL**  Permit Manager

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	7.875	4.5	0	10403		
Pipe	**Grade**	**Length**	**Weight**			
	Grade HCP-110 LT&C	680	11.6			
	Grade I-80 LT&C	9723	11.6			

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	12.25	9.625	0	2630		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 LT&C	2630	36.0			

'APIWellNo:43047505970000'

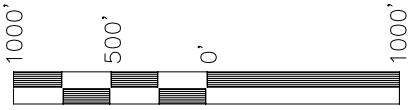
T9S, R21E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears N73°19'00"W 578.88' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

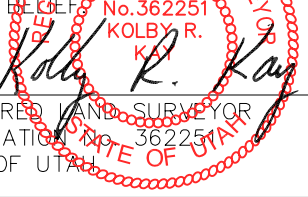


SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH



Kerr-McGee
Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

NBU 921-20D4BS
WELL PLAT
798' FNL, 698' FWL (Bottom Hole)
NW ¼ NW ¼ OF SECTION 20, T9S, R21E,
S.L.B.&M. UINTAH COUNTY, UTAH.

609
CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST – VERNAL, UTAH 84078

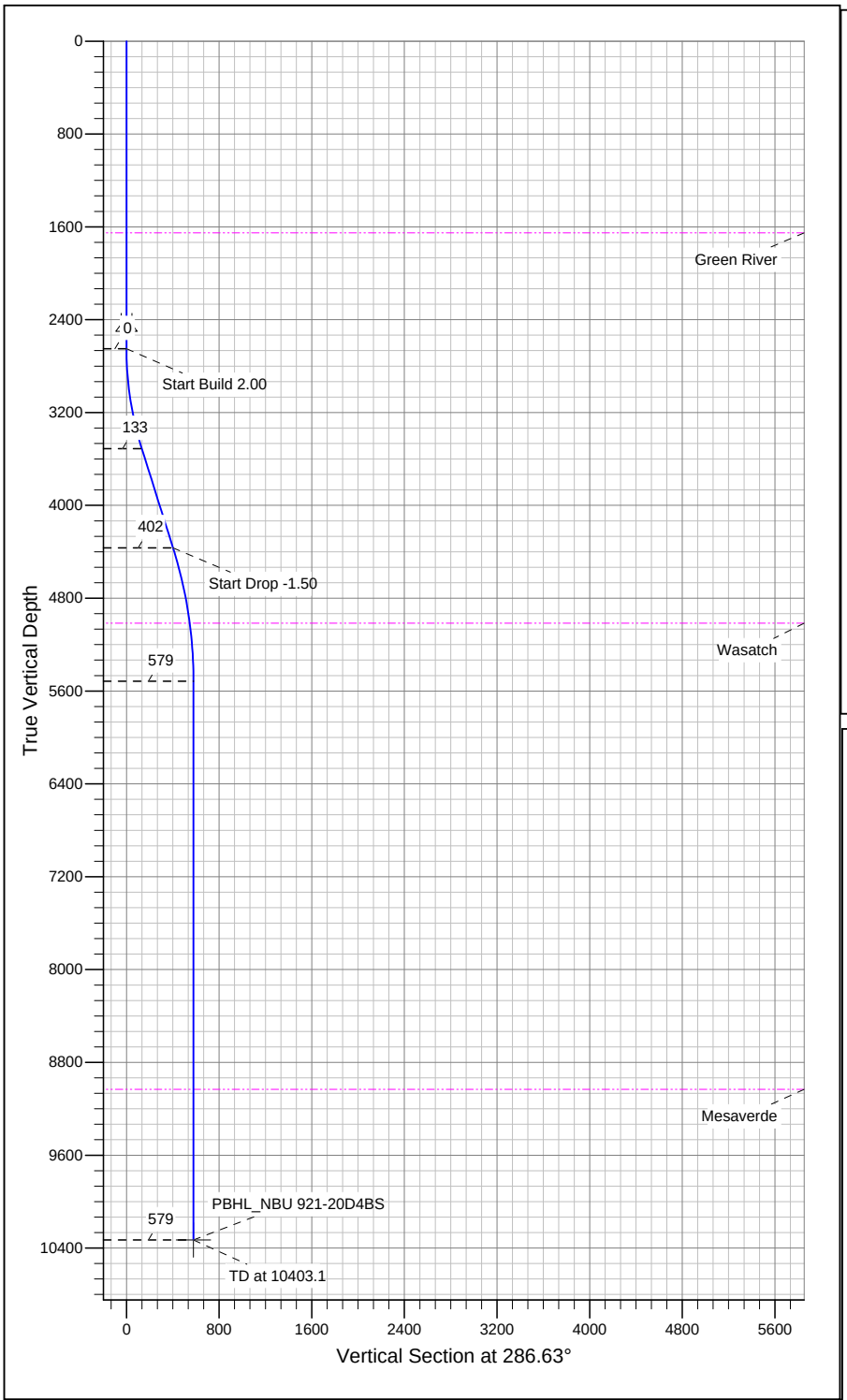
DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.	SHEET 4
DATE DRAWN: 02-25-09	DRAWN BY: K.K.O.	OF 13
SCALE: 1" = 1000'	Date Last Revised: 02-27-09	

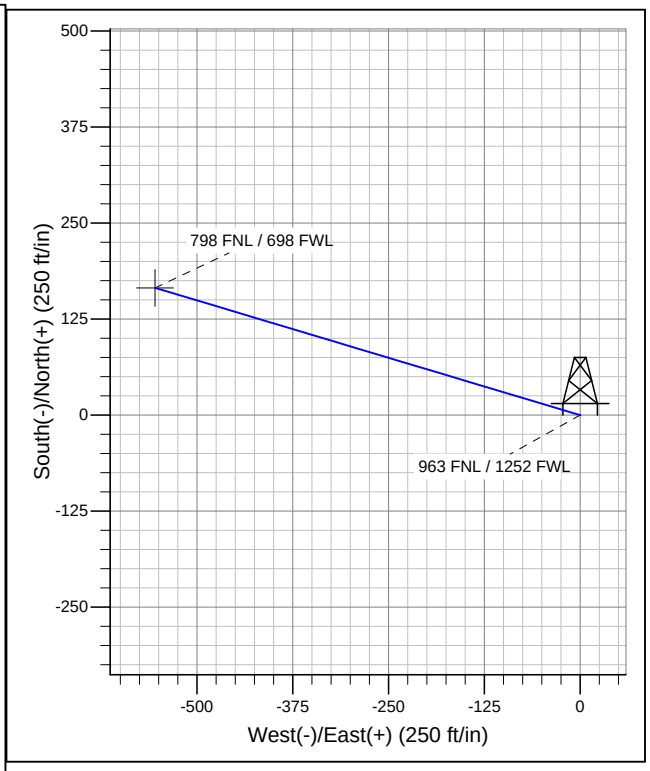
’APIWellNo:43047505970000’

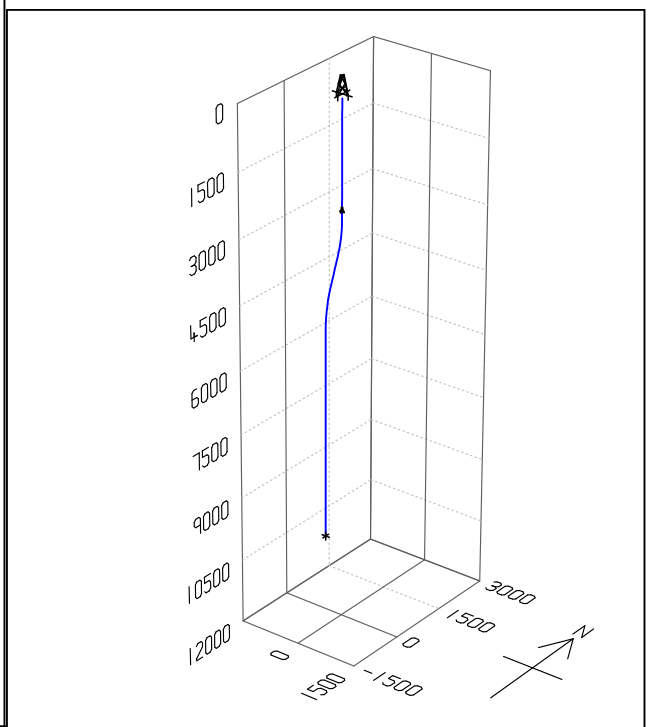
Anadarko Petroleum Corporation

Well Name: P_NBU 921-20D4BS
Surface Location: UINTAH_NBU 921-20D PAD
NAD 1927 (NADCON CONUS) Universal Transverse Mercator (US Survey Feet)
UTAH - UTM (feet), NAD27, Zone 12N
Ground Elevation: 4793.0

Northing	Easting	Latitude	Longitude
14538764.47	2037992.18	40.026229°N	109.579865°W

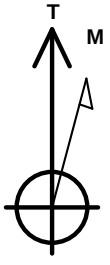






SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	2650.0	0.00	0.00	2650.0	0.0	0.0	0.00	0.00	0.0
3	3524.9	17.50	286.63	3511.4	37.9	-127.0	2.00	286.63	132.6
4	4421.5	17.50	286.63	4366.5	115.1	-385.3	0.00	0.00	402.2
5	5588.1	0.00	0.00	5515.0	165.7	-554.7	1.50	180.00	578.9
6	10403.1	0.00	0.00	10330.0	165.7	-554.7	0.00	0.00	578.9



Azimuths to True North
Magnetic North: 11.37°

Magnetic Field
Strength: 52574.7snT
Dip Angle: 65.94°
Date: 4/20/2009
Model: IGRF200510

ROCKIES - PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_NBU 921-20D PAD
P_NBU 921-20D4BS
P_NBU 921-20D4BS

Plan: Plan #1 04-20-09 ZJRA6

Standard Planning Report - Geographic

20 April, 2009

APC

Planning Report - Geographic

Database:	apc_edmp	**Local Co-ordinate Reference:**	Well P_NBU 921-20D4BS
Company:	ROCKIES - PLANNING	**TVD Reference:**	WELL @ 4793.0ft (Original Well Elev)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	WELL @ 4793.0ft (Original Well Elev)
Site:	UINTAH_NBU 921-20D PAD	**North Reference:**	True
Well:	P_NBU 921-20D4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	P_NBU 921-20D4BS		
Design:	Plan #1 04-20-09 ZJRA6		

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Fee	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site UINTAH_NBU 921-20D PAD

Site Position:		**Northing:**	14,538,771.61 ft	**Latitude:**	40.026246°N
From:	Lat/Long	**Easting:**	2,038,051.72 ft	**Longitude:**	109.579652°W
Position Uncertainty:	0.0 ft	**Slot Radius:**	"	**Grid Convergence:**	0.91 °

Well P_NBU 921-20D4BS

Well Position	**+N/-S**	0.0 ft	**Northing:**	14,538,764.47 ft	**Latitude:**	40.026229°N
	+E/-W	0.0 ft	**Easting:**	2,037,992.18 ft	**Longitude:**	109.579865°W
Position Uncertainty		0.0 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,793.0 ft

Wellbore P_NBU 921-20D4BS

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/20/2009	11.37	65.94	52,575

Design Plan #1 04-20-09 ZJRA6

Audit Notes:

Version:		**Phase:**	PLAN	**Tie On Depth:**	0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	10,330.0	0.0	0.0	286.63

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,650.0	0.00	0.00	2,650.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,524.9	17.50	286.63	3,511.4	37.9	-127.0	2.00	2.00	0.00	286.63	
4,421.5	17.50	286.63	4,366.5	115.1	-385.3	0.00	0.00	0.00	0.00	
5,588.1	0.00	0.00	5,515.0	165.7	-554.7	1.50	-1.50	0.00	180.00	
10,403.1	0.00	0.00	10,330.0	165.7	-554.7	0.00	0.00	0.00	0.00	PBHL_NBU 921-20

APC

Planning Report - Geographic

Database:	apc_edmp	**Local Co-ordinate Reference:**	Well P_NBU 921-20D4BS
Company:	ROCKIES - PLANNING	**TVD Reference:**	WELL @ 4793.0ft (Original Well Elev)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	WELL @ 4793.0ft (Original Well Elev)
Site:	UINTAH_NBU 921-20D PAD	**North Reference:**	True
Well:	P_NBU 921-20D4BS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	P_NBU 921-20D4BS		
Design:	Plan #1 04-20-09 ZJRA6		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.0	0.00	0.00	0.0	0.0	0.0	14,538,764.47	2,037,992.18	40.026229°N	109.579865°W
1,651.0	0.00	0.00	1,651.0	0.0	0.0	14,538,764.47	2,037,992.18	40.026229°N	109.579865°W
Green River									
2,500.0	0.00	0.00	2,500.0	0.0	0.0	14,538,764.47	2,037,992.18	40.026229°N	109.579865°W
Surface Casing									
2,650.0	0.00	0.00	2,650.0	0.0	0.0	14,538,764.47	2,037,992.18	40.026229°N	109.579865°W
3,524.9	17.50	286.63	3,511.4	37.9	-127.0	14,538,800.38	2,037,864.58	40.026333°N	109.580319°W
4,421.5	17.50	286.63	4,366.5	115.1	-385.3	14,538,873.43	2,037,605.07	40.026545°N	109.581241°W
5,086.6	7.52	286.63	5,015.0	156.3	-523.2	14,538,912.41	2,037,466.57	40.026658°N	109.581734°W
Wasatch									
5,588.1	0.00	0.00	5,515.0	165.7	-554.7	14,538,921.32	2,037,434.93	40.026684°N	109.581846°W
9,105.1	0.00	0.00	9,032.0	165.7	-554.7	14,538,921.32	2,037,434.93	40.026684°N	109.581846°W
Mesaverde									
10,403.1	0.00	0.00	10,330.0	165.7	-554.7	14,538,921.32	2,037,434.93	40.026684°N	109.581846°W

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL_NBU 921-20D4 - plan hits target center - Point	0.00	0.00	10,330.0	165.7	-554.7	14,538,921.32	2,037,434.93	40.026684°N	109.581846°W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
2,500.0	2,500.0	Surface Casing	9-5/8	12-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
5,086.6	5,015.0	Wasatch		0.00	
1,651.0	1,651.0	Green River		0.00	
9,105.1	9,032.0	Mesaverde		0.00	

NBU 921-20D4BS
Pad: NBU 921-20D
Surface: 963’ FNL 1,252’ FWL (NW/4NW/4)
BHL: 798’ FNL 698’ FWL (NW/4NW/4)
Sec. 20 T9S R21E

Uintah, Utah
Mineral Lease: UTU 0575

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. Estimated Tops of Important Geologic Markers:
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation	Depth	Resource
Uinta	0 – Surface	
Green River	1,651’	
Birds Nest	1,918’	Water
Mahogany	2,426’	Water
Wasatch	5,015’	Gas
Mesaverde	8,054’	Gas
MVU2	9,032’	Gas
MVL1	9,581’	Gas
TVD	10,330’	
TD	10,403’	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

6. Evaluation Program:

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 10,403' TD, approximately equals 6,481 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4,163 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

Drilling is planned to commence immediately upon approval of this application.

9. Variances:

Please refer to the attached Drilling Program.
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background
In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements
The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements
Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements
KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). The air rig operation utilizes a 5M BOPE when drilling. This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

Please refer to the attached Drilling Program.

’APIWellNo:43047505970000’

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	July 21, 2009	
WELL NAME	**NBU 921-20D4BS**		TD	10,330' TVD	10,403' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	FINISHED ELEVATION	4,793'
SURFACE LOCATION	NW/4 NW/4 963' FNL	1,252' FWL	Sec 20	T 9S	R 21E
	Latitude: 40.026194	Longitude: -109.580555			NAD 83
BTM HOLE LOCATION	NW/4 NW/4 798' FNL	698' FWL	Sec 20	T 9S	R 21E
	Latitude: 40.026648	Longitude: -109.582536			NAD 83
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), Ute Tribe (Surface), UDOGM Tri-County Health Dept.				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		20'		14"	
			12-1/4"	9-5/8", 36#, J-55, LTC	Air mist
	Green River @	1,651'			
	Top of Birds Nest @	1,918			
	Mahogany @	2,426			
	Preset f/ GL @	2,630' MD			
	Wasatch @	5,015'			
	Mverde @	8,054' TVD			
	MVU2 @	9,032' TVD			
	MVU1 @	9,581' TVD			
	TD @	10,330' TVD / 10,403' MD	7-7/8"	4-1/2" 11.6# I-180 & HCP-110 or equivalent LTC csg	Water / Fresh Water Mud 8.3-12.2 ppg

All water flows encountered while drilling will be reported to the appropriate agencies.

Note: 12.25" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

Mud logging program TBD

Cased hole logging program from TD - surf csg

Max anticipated Mud required 12.2 ppg

'APIWellNo:43047505970000'

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								3,520	2,020	453,000
SURFACE	9-5/8"	0	to	2,630	36.00	J-55	LTC	0.82	1.64	6.09
								7,780	6,350	201,000
PRODUCTION	4-1/2"	0	to	9,723	11.60	I-80	LTC	1.82	1.08	2.05
								10,690	8,650	279,000
	4-1/2"	9,723	to	10,403	11.60	HCP-110	LTC	71.46	1.32	43.48

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
(Burst Assumptions: TD = 12.2 ppg) 0.22 psi/ft = gradient for partially evac wellbore
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 4,163 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
(Burst Assumptions: TD = 12.2 ppg) 0.62 psi/ft = bottomhole gradient
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,481 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	380	0%	15.60	1.18
			+ 2% CaCl + 0.25 pps flocele				
			Premium cmt + 2% CaCl				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	2,130'	65/35 Poz + 6% Gel + 10 pps gilsonite	500	35%	12.60	1.81
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,513'	Premium Lite II + 3% KCl + 0.25 pps	430	40%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,890'	50/50 Poz/G + 10% salt + 2% gel	1,440	40%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained
*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

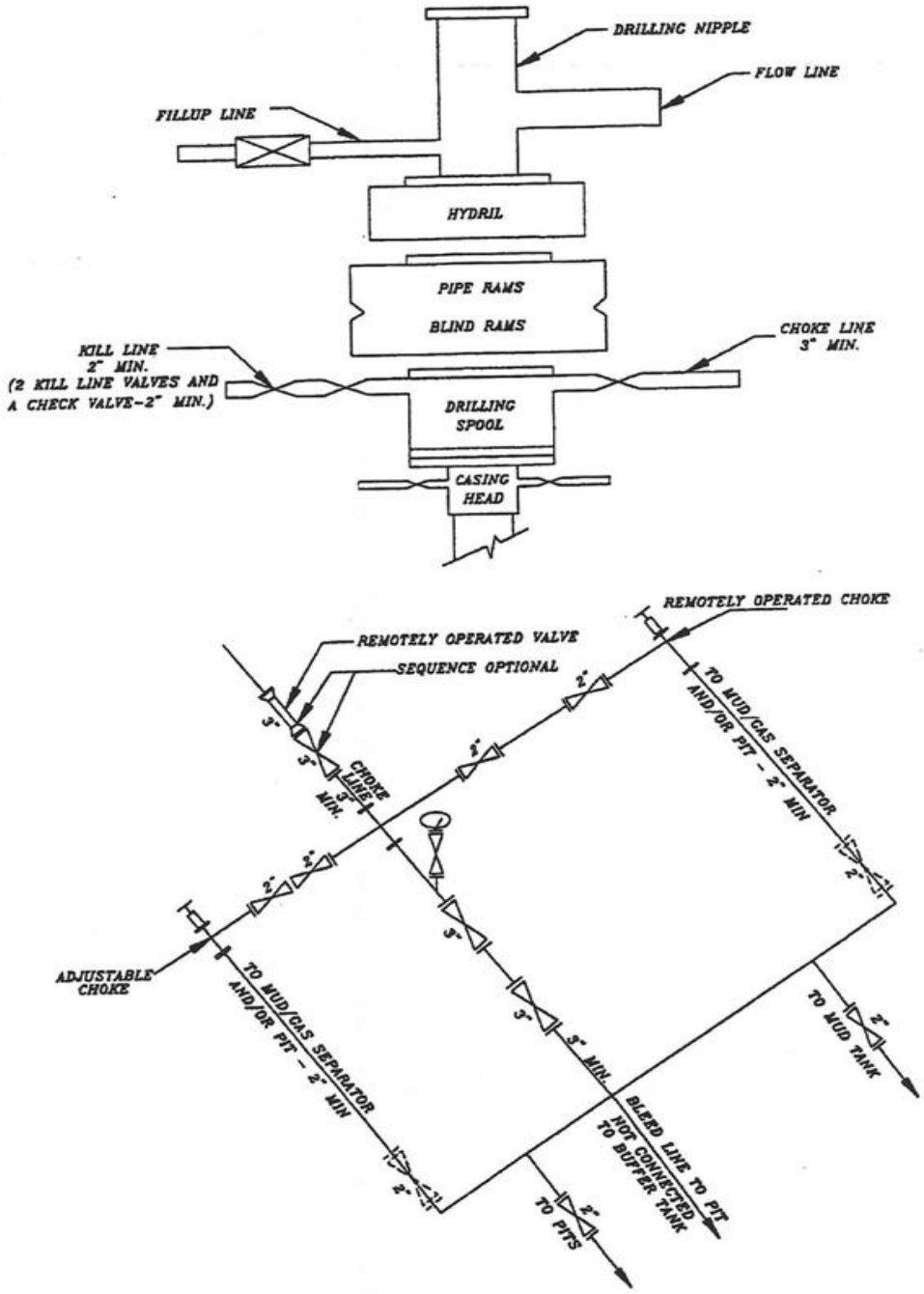
Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____
John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ **DATE:** _____
John Merkel / Lovel Young

EXHIBIT A
NBU 921-20D4BS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

'APIWellNo:43047505970000'

WELL PAD INTERFERENCE PLAT

DIRECTIONAL PAD – NBU 921–20B3CS, NBU 921–20D4CS, NBU 921–20D1CS & NBU 921–20D4BS

BOTTOM HOLE FOOTAGES

NBU 921–20B3CS
1144' FNL, 2612' FEL

NBU 921–20D4CS
1306' FNL, 770' FWL

NBU 921–20D1CS
346' FNL, 720' FWL

NBU 921–20D4BS
798' FNL, 698' FWL

SURFACE POSITION FOOTAGES:

NBU 921–20B3CS
957' FNL, 1312' FWL

NBU 921–20D4CS
959' FNL, 1292' FWL

NBU 921–20D1CS
961' FNL, 1272' FWL

NBU 921–20D4BS
963' FNL, 1252' FWL

Natural Cotton 11–20 (Dry Hole Marker)
1001' FNL, 1019' FWL

N

RELATIVE COORDINATES
From Surface Position to Bottom Hole

WELL	NORTH	EAST
921–20B3CS	–189'	1358'
921–20D4CS	–346'	–522'
921–20D1CS	616'	–553'
921–20D4BS	166'	–555'

Az=318.10361° (To Bottom Hole)
N41°53'47"W – 827.88'

Az=286.68333° (To Bottom Hole)
N73°19'00"W – 578.88'

N84°14'18"E
Az=84.23833°

Az=97.92722° (To Bottom Hole)
S82°04'22"E – 1371.52'

Az. to D.H.M.=260.89167° 236.7'
(Well bore buried, position determined with metal detector)

Az=236.46500° (To Bottom Hole)
S56°27'54"W – 626.13'

20' 20' 20'

NBU 921–20D4BS
Az. to D.H.M.=261.17222° 256.7'

NBU 921–20D1CS
Az. to D.H.M.=261.38806° 276.7'

NBU 921–20D4CS
Az. to D.H.M.=261.57444° 296.8'

NBU 921–20B3CS

BASIS OF BEARINGS IS THE WEST LINE OF THE NW 1/4 OF SECTION 20, T9S, R21E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°03'14"W.

D.H.M. = Dry Hole Marker

LATITUDE & LONGITUDE
Bottom Hole – (NAD 83)

WELL	N. LATITUDE	W. LONGITUDE
921–20B3CS	40°01'32.507" 40.025696°	109°34'31.770" 109.575492°
921–20D4CS	40°01'30.914" 40.025254°	109°34'56.188" 109.582274°
921–20D1CS	40°01'40.399" 40.027889°	109°34'56.859" 109.582461°
921–20D4BS	40°01'35.933" 40.026648°	109°34'57.128" 109.582536°

LATITUDE & LONGITUDE
Surface Position – (NAD 83)

WELL	N. LATITUDE	W. LONGITUDE
921–20B3CS	40°01'34.359" 40.026211°	109°34'49.230" 109.580342°
921–20D4CS	40°01'34.338" 40.026205°	109°34'49.487" 109.580413°
921–20D1CS	40°01'34.318" 40.026199°	109°34'49.743" 109.580484°
921–20D4BS	40°01'34.299" 40.026194°	109°34'49.999" 109.580555°
Dry Hole Marker Natural Cotton 11–20	40°01'33.925" 40.026090°	109°34'53.002" 109.581390°

LATITUDE & LONGITUDE
Surface Position – (NAD 27)

WELL	N. LATITUDE	W. LONGITUDE
921–20B3CS	40°01'34.486" 40.026246°	109°34'46.747" 109.579652°
921–20D4CS	40°01'34.466" 40.026240°	109°34'47.003" 109.579723°
921–20D1CS	40°01'34.445" 40.026235°	109°34'47.260" 109.579794°
921–20D4BS	40°01'34.426" 40.026229°	109°34'47.516" 109.579865°
Dry Hole Marker Natural Cotton 11–20	40°01'34.053" 40.026126°	109°34'50.519" 109.580700°

LATITUDE & LONGITUDE
Bottom Hole – (NAD 27)

WELL	N. LATITUDE	W. LONGITUDE
921–20B3CS	40°01'32.635" 40.025732°	109°34'29.287" 109.574802°
921–20D4CS	40°01'31.041" 40.025289°	109°34'53.704" 109.581585°
921–20D1CS	40°01'40.526" 40.027924°	109°34'54.375" 109.581771°
921–20D4BS	40°01'36.061" 40.026684°	109°34'54.644" 109.581846°

60' 30' 0' 60'
SCALE

Kerr–McGee
Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

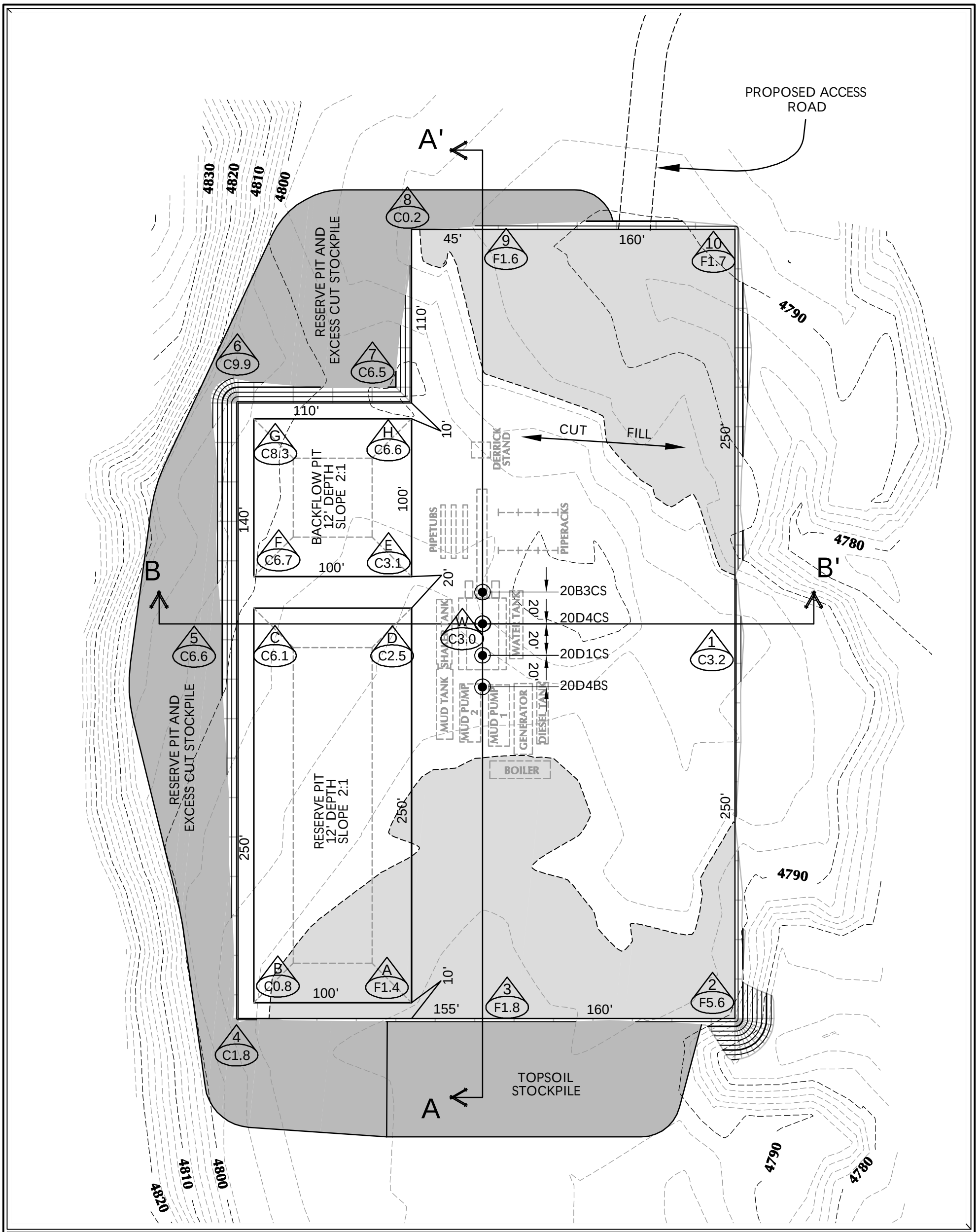
NBU 921-20B3CS, NBU 921-20D4CS, NBU 921-20D1CS & NBU 921-20D4BS LOCATED IN SECTION 20, T9S, R21E, S.L.B.&M. UINTAH COUNTY, UTAH.

CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.
DATE DRAWN: 02-26-09	DRAWN BY: K.K.O.
	REVISED:

Timberline (435) 789–1365
Engineering & Land Surveying, Inc.
209 NORTH 300 WEST VERNAL, UTAH 84078

’APIWellNo:43047505970000’



WELL PAD NBU 921-20D QUANTITIES

EXISTING GRADE @ CENTER OF WELL PAD = 4796.4'
FINISHED GRADE ELEVATION = 4793.4'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 9,912 C.Y.
TOTAL FILL FOR WELL PAD = 4,910 C.Y.
TOPSOIL @ 6" DEPTH = 2,886 C.Y.
EXCESS MATERIAL = 5,002 C.Y.
TOTAL DISTURBANCE = 3.58 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 28,730 BARRELS
RESERVE PIT VOLUME
+/- 7,720 CY
BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
+/- 9,490 BARRELS
BACKFLOW PIT VOLUME
+/- 2,660 CY

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)

HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS

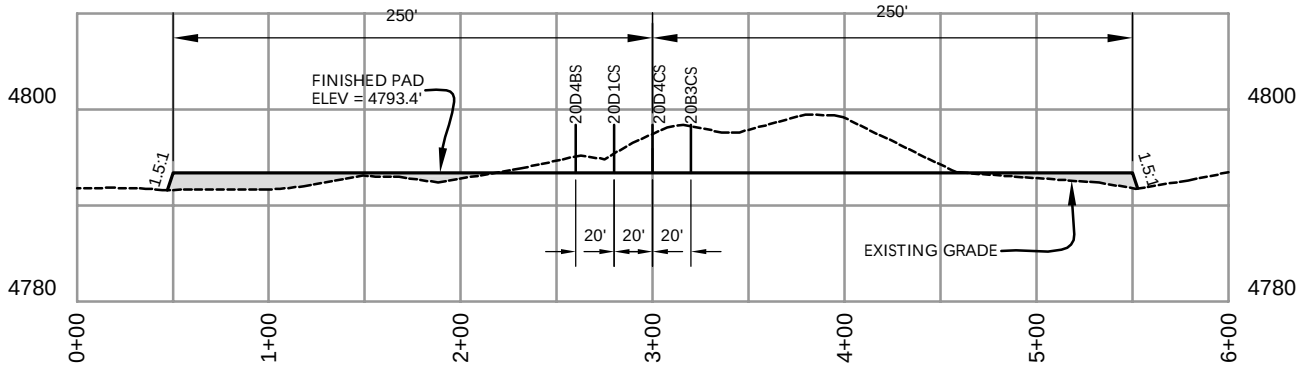
KERR-MCGEE OIL & GAS ONSHORE L.P.
1099 18th Street - Denver, Colorado 80202

WELL PAD - LOCATION LAYOUT
NBU 921-20B3CS, NBU 921-20D4CS,
NBU 921-20D1CS & NBU 921-20D4BS
LOCATED IN SECTION 20, T.9S., R.21E.
S.L.B.&M., UINTAH COUNTY, UTAH

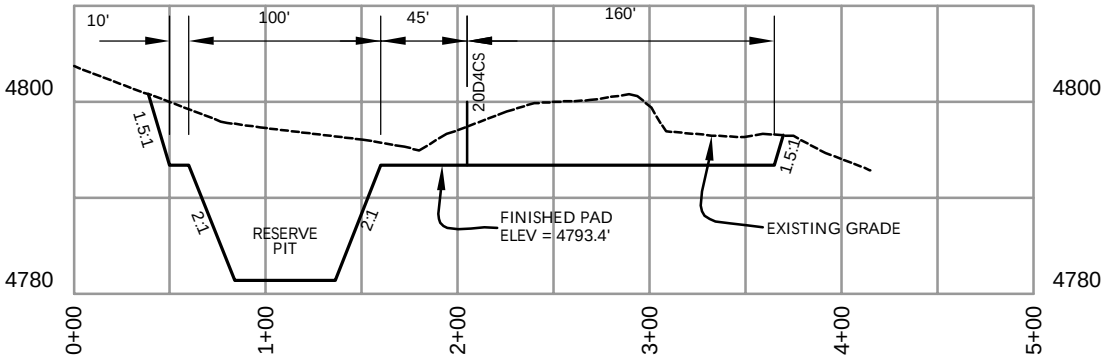
609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

Scale: 1"=60'	Date: 3/17/09	SHEET NO: 6 6 OF 13
REVISED:		

Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078



CROSS SECTION A-A'



CROSS SECTION B-B'

NOTE: CROSS SECTION B-B' DEPICTS
MAXIMUM RESERVE PIT DEPTH.

KERR-MCGEE OIL & GAS
ONSHORE L.P.
1099 18th Street - Denver, Colorado 80202

WELL PAD - CROSS SECTIONS
NBU 921-20B3CS, NBU 921-20D4CS,
NBU 921-20D1CS & NBU 921-20D4BS
LOCATED IN SECTION 20, T.9S., R.21E.
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

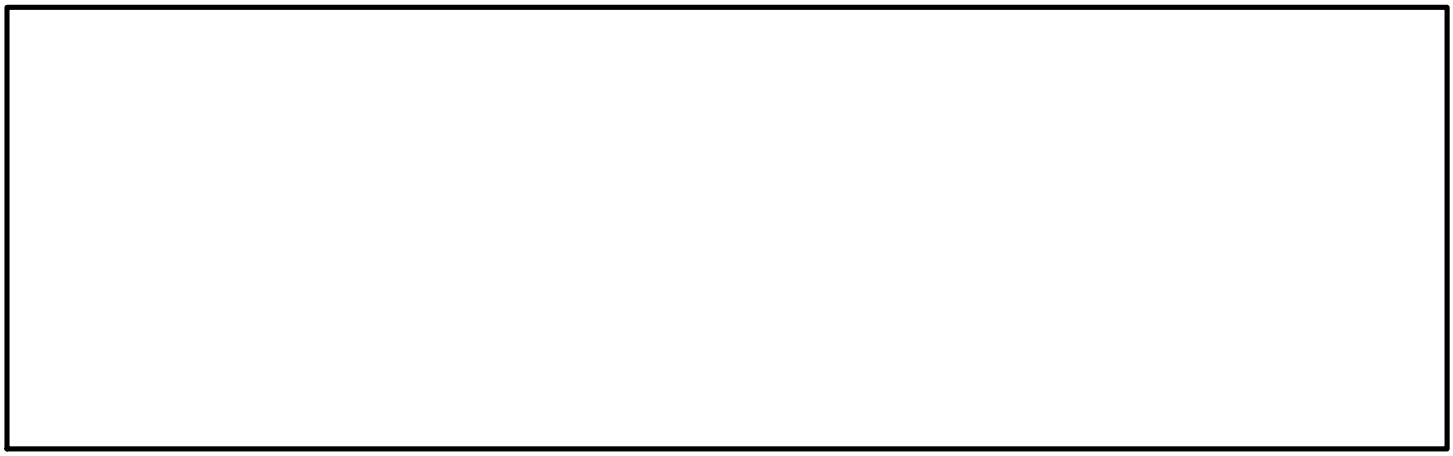
Scale: 1"=100'	Date: 3/17/09	SHEET NO: 7 7 OF 13
REVISED:		

HORIZONTAL 0 50 100 1" = 100'
VERTICAL 0 10 20 1" = 20'

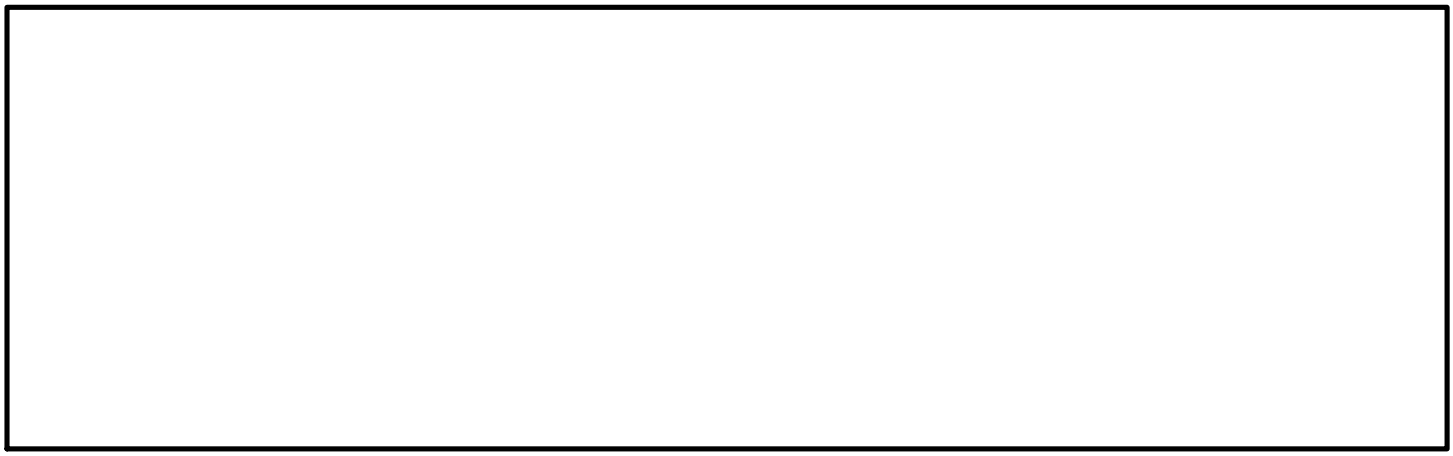
Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078

'APIWellNo:43047505970000'

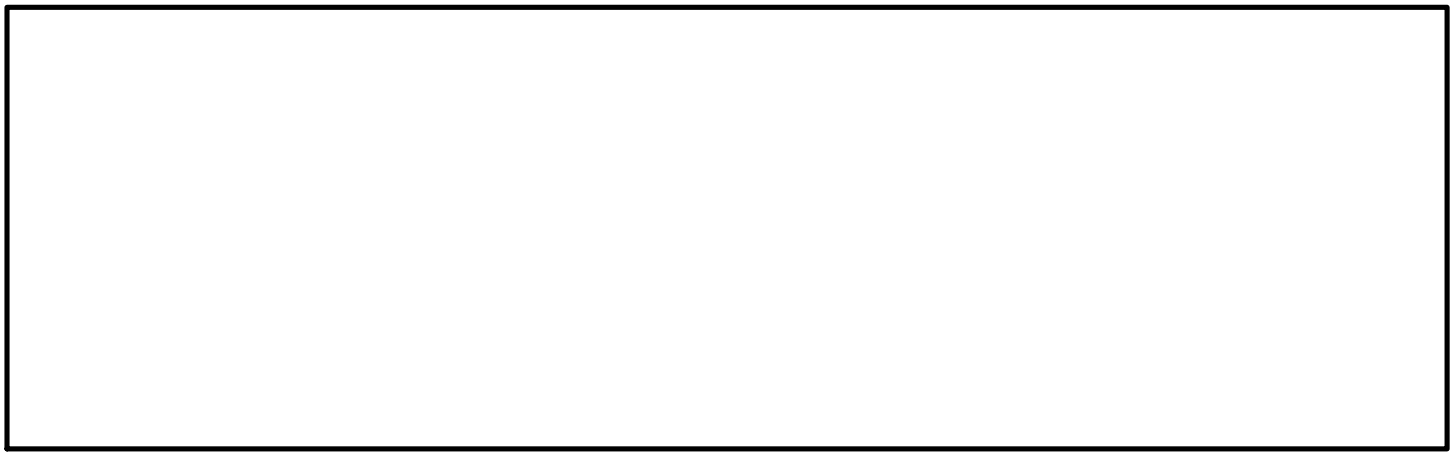
’APIWellNo:43047505970000’



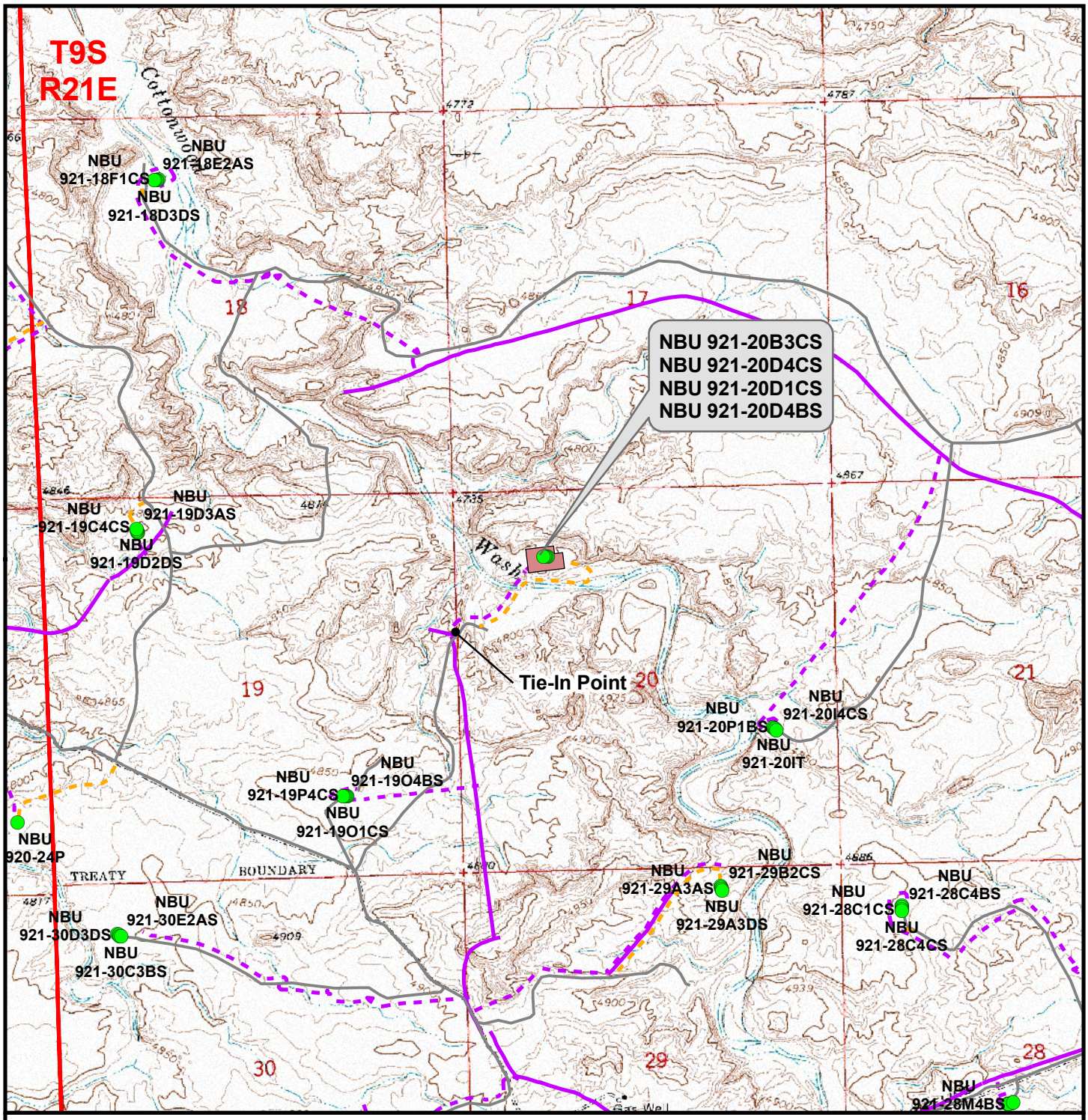
’APIWellNo:43047505970000’



’APIWellNo:43047505970000’



’APIWellNo:43047505970000’



Legend

Well - Proposed | Well Pad | Road - Proposed | Pipeline - Proposed | Road - Existing | Pipeline - Existing

Proposed Pipeline Length From Tie-In Point To Edge Of Pad: ±1,530ft
Proposed Pipeline Length Around Pad: ±660ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

NBU 921-20B3CS, NBU 921-20D4CS, NBU 921-20D1CS & NBU 921-20D4BS
Topo D
Located In Section 20, T9S, R21E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2000ft	NAD83 USP Central	Sheet No: 12 of 13	
Drawn: JELo	Date: 24 Feb 2009		
Revised:	Date:		

'APIWellNo:43047505970000'

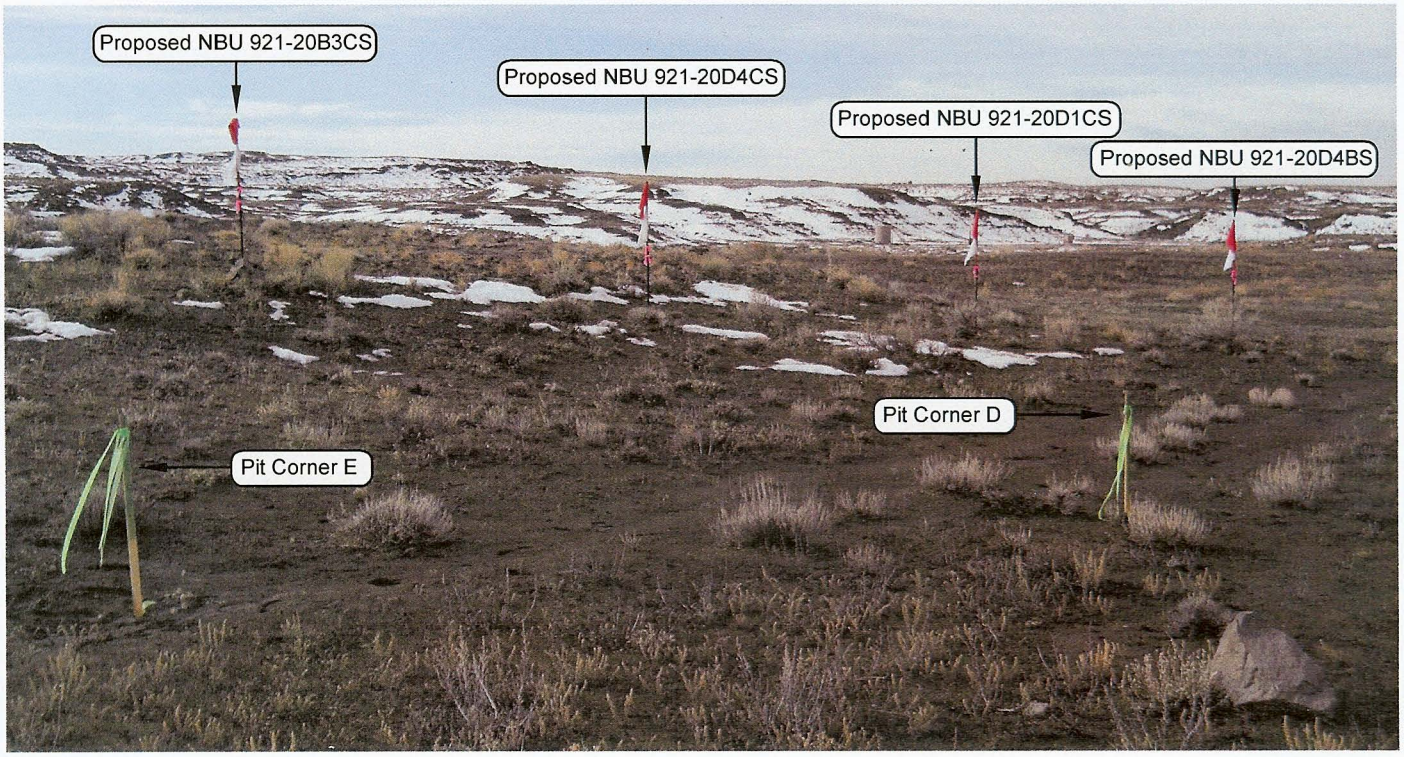


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES

CAMERA ANGLE: SOUTHERLY

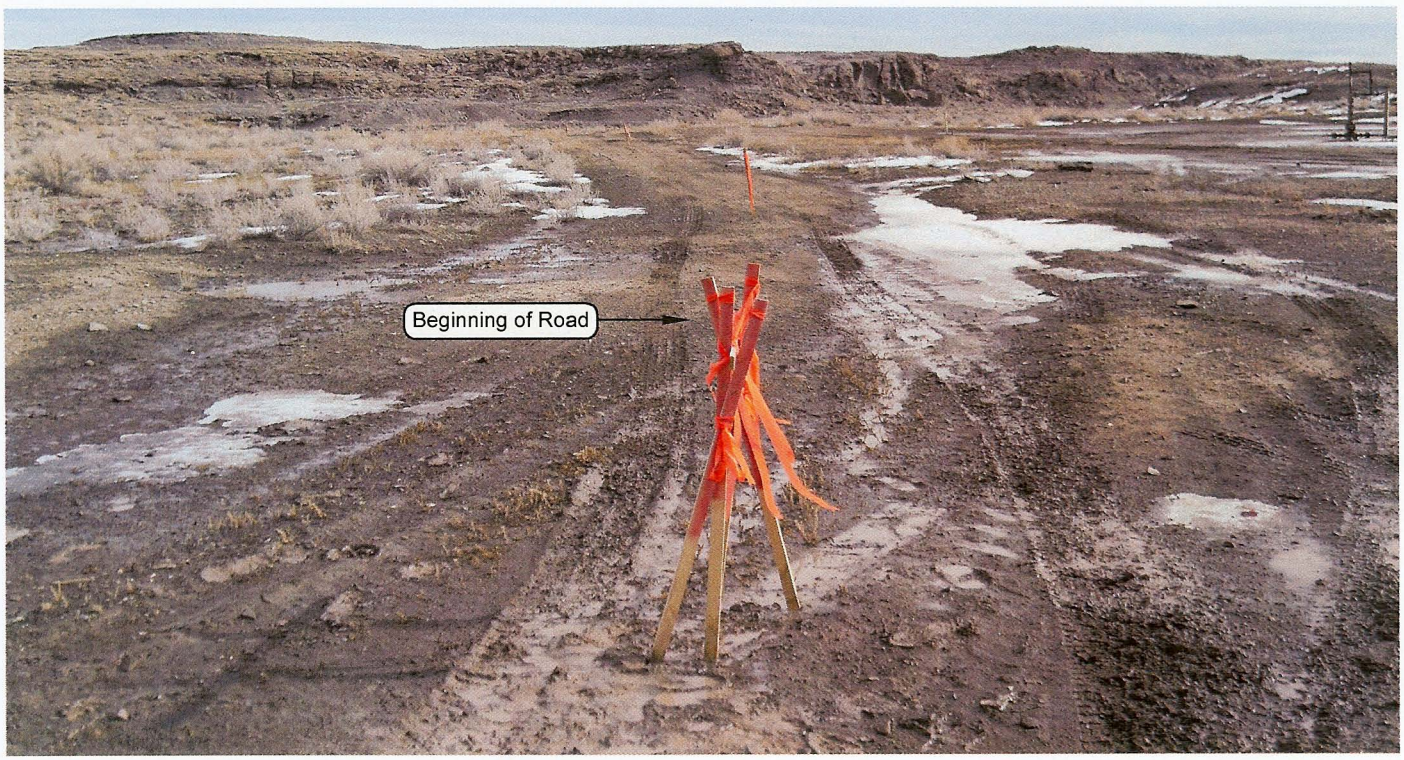


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

Kerr–McGee
Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

NBU 921-20B3CS, NBU 921-20D4CS,
NBU 921-20D1CS & NBU 921-20D4BS
LOCATED IN SECTION 20, T9S, R21E,
S.L.B.&M. UINTAH COUNTY, UTAH.

CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

LOCATION PHOTOS		DATE TAKEN: 01-16-09
		DATE DRAWN: 02-26-09
TAKEN BY: M.S.B.	DRAWN BY: E.M.S.	REVISED:

Timberline Engineering & Land Surveying, Inc.
(435) 789-1365
209 NORTH 300 WEST VERNAL, UTAH 84078

SHEET 8 OF 13

Kerr-McGee Oil & Gas Onshore, LP
NBU 921-20B3CS, NBU 921-20D4CS, NBU 921-20D1CS, & NBU 921-20D4BS
Section 20, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 5.3 MILES TO THE INTERSECTION OF A SERVICE ROAD TO THE EAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY THEN SOUTHEASTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 5.1 MILES TO A SECOND SERVICE ROAD TO THE NORTHEAST. EXIT LEFT AND PROCEED IN A NORTH BY NORTHEAST DIRECTION ALONG THE SECOND SERVICE ROAD APPROXIMATELY 0.8 MILES TO THE TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A NORTHEASTERLY, THEN EASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 2,390 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE WELL LOCATION IS APPROXIMATELY 42.4 MILES IN A SOUTHERLY DIRECTION.

NBU 921-20B3CS
Surface: 957' FNL 1,312' FWL (NW/4NW/4)
BHL: 1,144' FNL 2,612' FEL (NW/4NE/4)

NBU 921-20D1CS
Surface: 961' FNL 1,272' FWL (NW/4NW/4)
BHL: 346' FNL 720' FWL (NW/4NW/4)

NBU 921-20D4BS
Surface: 963' FNL 1,252' FWL (NW/4NW/4)
BHL: 798' FNL 698' FWL (NW/4NW/4)

NBU 921-20D4CS
Surface: 959' FNL 1,292' FWL (NW/4NW/4)
BHL: 1,306' FNL 770' FWL (NW/4NW/4)

Pad: NBU 921-20D
Sec. 20 T9S R21E

Uintah, Utah
Mineral Lease: UTU 0575

Surface Owner: Ute Indian Tribe

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN SUBMITTED WITH SITE-SPECIFIC INFORMATION

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) and Bureau of Indian Affairs (BIA) documents. An NOS was submitted showing the surface locations in NW/4 NW/4 of Section 20 T9S R21E.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information is to be incorporated by reference into the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee). The MDP is available upon request from the BIA-Ft Duchesne Office.

An on-site meeting was held on June 24, 2009. Present were:

- Verlyn Pindell and Dave Gordon – BLM;
- Bucky Secakuku – BIA
- Kolby Kay and Mitch Batty – Timberline Surveying, Inc.
- Nick Hall – Grasslands Consulting, Inc.
- Scott Carson – Smiling Lake Consulting
- Keith Montgomery – Montgomery Archaeological Consultants, Inc.
- Tony Kazeck, Jeff Samuels, Raleen White, David Liddell, and Hal Blanchard – Kerr-McGee

Directional Drilling:
In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, this well will be directionally drilled in order to access portions of our lease which are otherwise inaccessible due to topography.

1. Existing Roads:
A) Refer to Topo Map A for directions to the location.
B) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:
See MDP for additional details on road construction.
Approximately ±2,390' (±0.45 miles) of new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and are typically shown on the attached Exhibits and Topo maps.

Per the onsite meeting, Kerr-McGee will construct a low-water crossing on the Cottonwood Wash for the access road (100-year flood standards).

3. Location of Existing Wells Within a 1-Mile Radius:
Please refer to Topo Map C.

4. Location of Existing and Proposed Facilities:
See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.
Approximately ±2,190' (±0.41 miles) of pipeline is proposed. Refer to Topo D for the existing pipeline. Appropriate surface use agreements have been or will be obtained from the Ute Indian Tribe. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place.

Per the onsite meeting, the following items were requested:
- The equipment (new and old infrastructure) will be painted Shadow Grey.
- A 404 permit will be obtained from the Core of Engineers to bury the proposed pipeline, as well as the existing pipeline, under the Cottonwood Wash.

5. Location and Type of Water Supply:
See MDP for additional details on Location and Type of Water Supply.

Water for drilling purposes will be obtained from one of the following sources:
- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

No water well is to be drilled on this lease.

6. **Source of Construction Materials:**
See MDP for additional details on Source of Construction Materials.

7. **Methods of Handling Waste Materials:**
See MDP for additional details on Methods of Handling Waste Materials.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

8. **Ancillary Facilities:**
See MDP for additional details on Ancillary Facilities.

None are anticipated.

9. **Well Site Layout:** (See Location Layout Diagram)
See MDP for additional details on Well Site Layout.

All pits will be fenced according to the following minimum standards:

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

10. **Plans for Reclamation of the Surface:**
See MDP for additional details on Plans for Reclamation of the Surface.

Kerr-McGee shall call the BIA for the seed mixture prior to starting interim and/or final reclamation actions.

11. Surface/Mineral Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe
PO Box 70
Fort Duchesne, Utah 84026
435-722-5141

The mineral ownership is listed below:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
435-781-4400

12. Other Information:

See MDP for additional details on Other Information.

Per the onsite meeting, the following items were requested:

- A raptor survey will be completed if the wells are not constructed during 2009. This survey is to be conducted on the raptor nest east of the location.
- Archeological monitoring during construction.

13. Lessee's or Operators' Representative & Certification:

Kathy Schneebeck Dulnoan
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6007

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720-929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Kathy Schneebeck Dulnoan

Kathy Schneebeck Dulnoan

July 22, 2009
Date

Kerr-McGee Oil & Gas Onshore LP
1099 18th Street, Suite 1800
Denver, CO 80202-1918
P.O. Box 173779
Denver, CO 80217-3779
720-929-6000

April 13, 2009

Ms. Diana Mason
Utah Department of Oil, Gas & Mining
P.O. Box 145801
Salt Lake City, Utah 54114-5801

Re: Directional Application
NBU 921-20B3CS
NBU 921-20D4CS
NBU 921-20D1CS
NBU 921-20D4BS
Uintah County, Utah
Natural Buttes Unit

Dear Ms. Mason:

Pursuant to the filing of NBU 921-20B3CS, NBU 921-20D4CS, NBU 921-20D1CS, NBU 921-20D4BS wells, Application to Drill, regarding the above referenced Mesaverde wells on April 13, 2009, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

EOG Resources, Inc. has received notification of the planned directional wells and consents to the directional drilling plan.

By: _____
Name: J. Michael Schween
Title: Land Manager
EOG Resources, Inc.

'APIWellNo:43047505970000'

CLASS I REVIEW OF KERR-MCGEE OIL & GAS ONSHORE LP'S 50 PROPOSED WELL LOCATIONS IN T9S, R21E SECS. 19, 20, 21, 23, 28, 29 AND 30 UINTAH COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

Ute Tribal Land
Uintah and Ouray Agency

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 09-11

February 23, 2009

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

Ute Tribal Permit No. A08-363

Paleontological Assessment for Anadarko Petroleum Corp.

NBU 921-20B3CS, D4CS, D1CS, D4BS
Ouray SE Quadrangle
Uintah County, Utah

Prepared for

Anadarko Petroleum Corp.
and
Ute Tribe
Uintah and Ouray Reservation

Prepared by

SWCA Environmental Consultants

SWCA #UT09-14314-34

’APIWellNo:43047505970000’

Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237
(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Operator: Kerr-McGee Oil & Gas Onshore LP

Wells: NBU 921-20D1CS, NBU 921-20D4BS, NBU 921-20D4CS, NBU 921-20B3CS

Pipelines: Associated Pipelines to proposed well pad

Access Roads: Associated access roads to proposed well pad

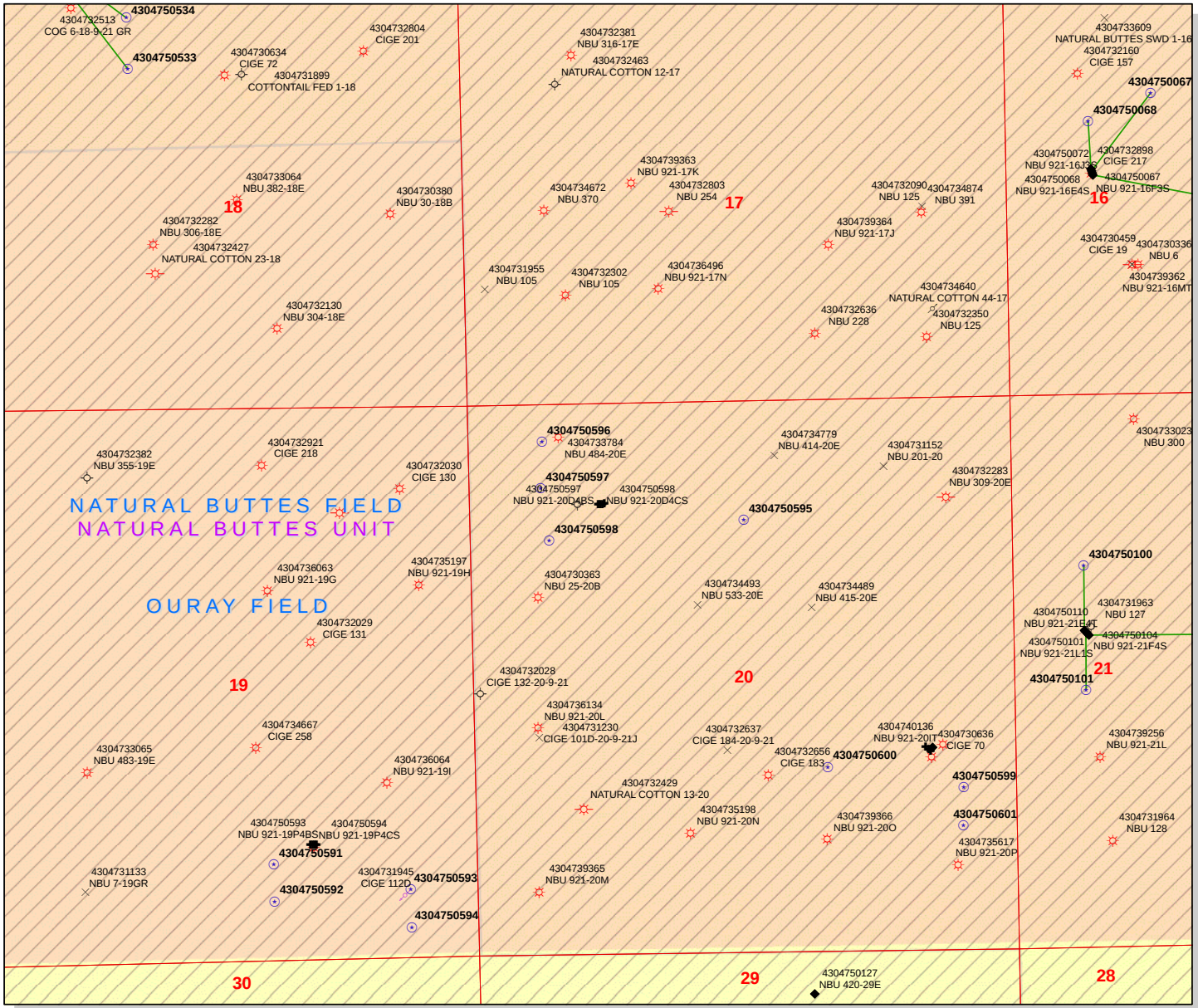
Location: Section 20, Township 9 South, Range 21 East; Uintah County, Utah

Survey-Species: Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*) and nesting raptors

Date: 06/25/2009

Observer(s): Grasslands Consulting, Inc. Biologists: Nick Hall, BJ Lukins, Jay Slocum, Matt Kelahan, and Jonathan Sexauer. Technician: Chad Johnson,

Weather: Partly cloudy, 75-80ºF, 0-5 mph winds with no precipitation.



API Number: 4304750597

Well Name: NBU 921-20D4BS

Township 09.0 S Range 21.0 E Section 20

Meridian: SLBM

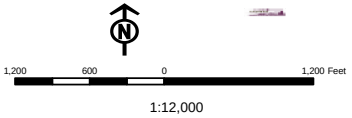
Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
ACTIVE
EXPLORATORY
GAS STORAGE
NF PP OIL
NF SECONDARY
PI OIL
PP GAS
PP GEOTHERML
PP OIL
SECONDARY
TERMINATED

Fields
STATUS
ACTIVE
COMBINED
Sections

Wells Query Events
<all other values>
GIS_STAT_TYPE
<Null>
APD
DRL
GI
GS
LA
NEW
OPS
PA
PGW
POW
RET
SGW
SOW
TA
TW
WD
WI
WS



1:12,000

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

July 24, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2009 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2009 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50590	NBU 920-14H	Sec 14 T09S R20E 1562 FNL 0500 FEL
43-047-50589	NBU 920-14G	Sec 14 T09S R20E 2444 FNL 1947 FEL
43-047-50591	NBU 921-19O1CS	Sec 19 T09S R21E 1078 FSL 1614 FEL BHL Sec 19 T09S R21E 0897 FSL 1974 FEL
43-047-50592	NBU 921-19O4BS	Sec 19 T09S R21E 1079 FSL 1594 FEL BHL Sec 19 T09S R21E 0540 FSL 1974 FEL
43-047-50593	NBU 921-19P4BS	Sec 19 T09S R21E 1082 FSL 1554 FEL BHL Sec 19 T09S R21E 0621 FSL 0654 FEL
43-047-50594	NBU 921-19P4CS	Sec 19 T09S R21E 1080 FSL 1574 FEL BHL Sec 19 T09S R21E 0254 FSL 0654 FEL
43-047-50595	NBU 921-20B3CS	Sec 20 T09S R21E 0957 FNL 1312 FWL BHL Sec 20 T09S R21E 1144 FNL 2612 FEL
43-047-50596	NBU 921-20D1CS	Sec 20 T09S R21E 0961 FNL 1272 FWL BHL Sec 20 T09S R21E 0346 FNL 0720 FWL

43-047-50597 NBU 921-20D4BS Sec 20 T09S R21E 0963 FNL 1252 FWL
BHL Sec 20 T09S R21E 0798 FNL 0698 FWL

43-047-50598 NBU 921-20D4CS Sec 20 T09S R21E 0959 FNL 1292 FWL
BHL Sec 20 T09S R21E 1306 FNL 0770 FWL

43-047-50599 NBU 921-20I4CS Sec 20 T09S R21E 1873 FSL 0843 FEL
BHL Sec 20 T09S R21E 1507 FSL 0527 FEL

43-047-50600 NBU 920-20J4BS Sec 20 T09S R21E 1910 FSL 0891 FEL
BHL Sec 20 T09S R21E 1734 FSL 1839 FEL

43-047-50601 NBU 921-20P1BS Sec 20 T09S R21E 1885 FSL 0859 FEL
BHL Sec 20 T09S R21E 1140 FSL 0538 FEL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:7-24-09

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 7/22/2009 **API NO. ASSIGNED:** 43047505970000

WELL NAME: NBU 921-20D4BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NWNW 20 090S 210E **Permit Tech Review:** ☑

SURFACE: 0963 FNL 1252 FWL **Engineering Review:** ☑

BOTTOM: 0798 FNL 0698 FWL **Geology Review:** ☑

COUNTY: UINTAH

LATITUDE: 40.02609 **LONGITUDE:** -109.57981

UTM SURF EASTINGS: 621186.00 **NORTHINGS:** 4431409.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 0575 **PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE

SURFACE OWNER: 2 - Indian **COALBED METHANE:** NO

RECEIVED AND/OR REVIEWED:

- ☑ **PLAT**
- ☑ **Bond:** FEDERAL - WYB000291
- ☐ **Potash**
- ☑ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☑ **Water Permit:** Permit #43-8496
- ☐ **RDCC Review:**
- ☐ **Fee Surface Agreement**
- ☑ **Intent to Commingle**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: NATURAL BUTTES

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☑ **Drilling Unit**

Board Cause No: Cause 173-14

Effective Date: 12/2/1999

Siting: 460' fr u bdry & uncomm. tract

- ☑ **R649-3-11. Directional Drill**

Comments: Presite Completed

Stipulations:

3 - Commingling - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason

JON M. HUNTSMAN, JR.
Governor
GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES
MICHAEL R. STYLER
Executive Director
Division of Oil, Gas and Mining
JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: NBU 921-20D4BS
API Well Number: 43047505970000
Lease Number: UTU 0575
Surface Owner: INDIAN
Approval Date: 8/10/2009

Issued to:
KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

Authority:
Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:
This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:
In accordance with Cause No. 173-14 commingling the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:
Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:
State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

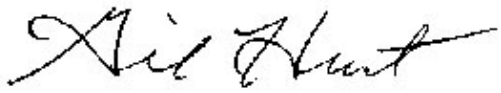
Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at http://oilgas.ogm.utah.gov

Reporting Requirements:
All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:



Gil Hunt
Associate Director, Oil & Gas

API Well No: 43047505970000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20D4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047505970000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0963 FNL 1252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 9/12/2009	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests to re-route the proposed access road and pipeline for this well in order to avoid cactus plants. Please see the attached revised survey plats and SUPO for additional details. All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

September 09, 2009

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 9/8/2009

RECEIVED September 08, 2009

NBU 921-20B3CS
Surface: 957' FNL 1,312' FWL (NW/4NW/4)
BHL: 1,144' FNL 2,612' FEL (NW/4NE/4)

NBU 921-20D1CS
Surface: 961' FNL 1,272' FWL (NW/4NW/4)
BHL: 346' FNL 720' FWL (NW/4NW/4)

NBU 921-20D4BS
Surface: 963' FNL 1,252' FWL (NW/4NW/4)
BHL: 798' FNL 698' FWL (NW/4NW/4)

NBU 921-20D4CS
Surface: 959' FNL 1,292' FWL (NW/4NW/4)
BHL: 1,306' FNL 770' FWL (NW/4NW/4)

Pad: NBU 921-20D
Sec. 20 T9S R21E

Uintah, Utah
Mineral Lease: UTU 0575

Surface Owner: Ute Indian Tribe

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN SUBMITTED WITH SITE-SPECIFIC INFORMATION

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) and Bureau of Indian Affairs (BIA) documents. An NOS was submitted showing the surface locations in NW/4 NW/4 of Section 20 T9S R21E.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information is to be incorporated by reference into the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee). The MDP is available upon request from the BIA-Ft Duchesne Office.

An on-site meeting was held on June 24, 2009. Present were:
- Verlyn Pindell and Dave Gordon – BLM;
- Bucky Secakuku – BIA
- Kolby Kay and Mitch Batty – Timberline Surveying, Inc.
- Nick Hall – Grasslands Consulting, Inc.
- Scott Carson – Smiling Lake Consulting
- Keith Montgomery – Montgomery Archaeological Consultants, Inc.
- Tony Kazeck, Jeff Samuels, Raleen White, David Liddell, and Hal Blanchard – Kerr-McGee

RECEIVED September 08, 2009

Directional Drilling:
In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, this well will be directionally drilled in order to access portions of our lease which are otherwise inaccessible due to topography.

1. Existing Roads:

A) Refer to Topo Map A for directions to the location.
B) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:

See MDP for additional details on road construction.
Approximately ±1,945' (±0.37 miles) of new access road is proposed. Another ±430' (±0.08 miles) of new access road is proposed for concurrent access to the NBU 921-20F proposed well. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and are typically shown on the attached Exhibits and Topo maps.

Per the onsite meeting, Kerr-McGee will construct a low-water crossing on the Cottonwood Wash for the access road (100-year flood standards).

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.
Approximately ±2,240' (±0.42 miles) of pipeline is proposed. Refer to Topo D for the existing pipeline. Appropriate surface use agreements have been or will be obtained from the Ute Indian Tribe. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place.

Per the onsite meeting, the following items were requested:

- The equipment (new and old infrastructure) will be painted Shadow Grey.
- A 404 permit will be obtained from the Core of Engineers to bury the proposed pipeline, as well as the existing pipeline, under the Cottonwood Wash.

5. Location and Type of Water Supply:

See MDP for additional details on Location and Type of Water Supply.

Water for drilling purposes will be obtained from one of the following sources:

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.

RECEIVED September 08, 2009

- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

No water well is to be drilled on this lease.

6. Source of Construction Materials:
See MDP for additional details on Source of Construction Materials.

7. Methods of Handling Waste Materials:
See MDP for additional details on Methods of Handling Waste Materials.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

8. Ancillary Facilities:
See MDP for additional details on Ancillary Facilities.

None are anticipated.

9. Well Site Layout: (See Location Layout Diagram)
See MDP for additional details on Well Site Layout.

All pits will be fenced according to the following minimum standards:

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

10. Plans for Reclamation of the Surface:
See MDP for additional details on Plans for Reclamation of the Surface.

Kerr-McGee shall call the BIA for the seed mixture prior to starting interim and/or final reclamation actions.

RECEIVED September 08, 2009

11. Surface/Mineral Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe
PO Box 70
Fort Duchesne, Utah 84026
435-722-5141

The mineral ownership is listed below:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
435-781-4400

12. Other Information:

See MDP for additional details on Other Information.

Per the onsite meeting, the following items were requested:

- A raptor survey will be completed if the wells are not constructed during 2009. This survey is to be conducted on the raptor nest east of the location.
- Archeological monitoring during construction.

RECEIVED September 08, 2009

13. Lessee's or Operators' Representative & Certification:

Kathy Schneebeck Dulnoan
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6007

Tommy Thompson
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720-929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

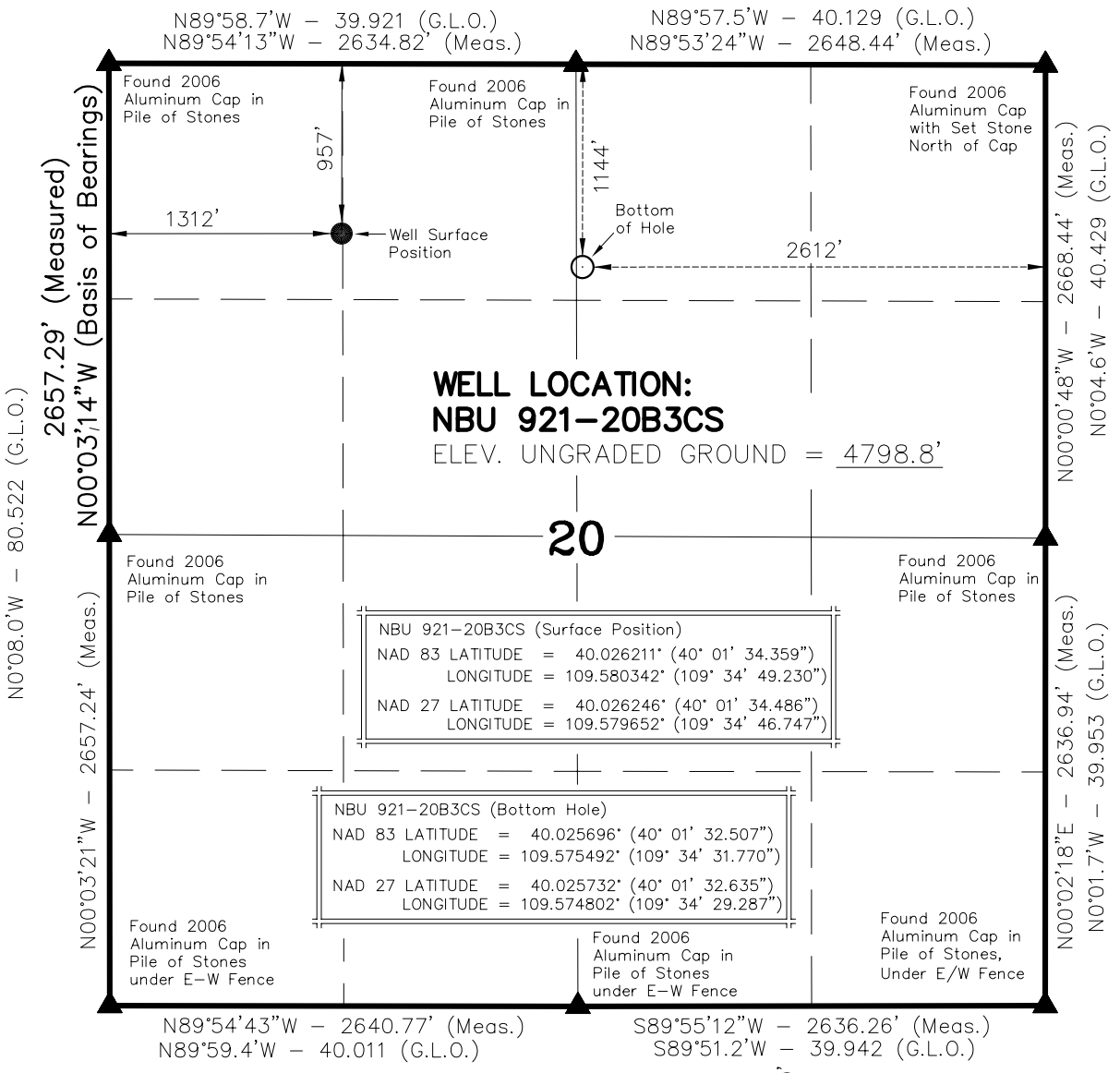
I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Kathy Schneebeck Dulnoan

Kathy Schneebeck Dulnoan

September 8, 2009
Date

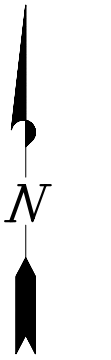
T9S, R21E, S.L.B.&M.

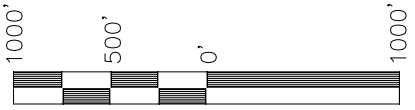


NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears S82°04'22"E 1371.52' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



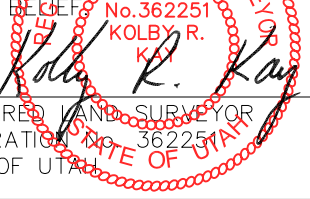


SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH



Kerr-McGee
Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

NBU 921-20B3CS
WELL PLAT
1144' FNL, 2612' FEL (Bottom Hole)
NW ¼ NE ¼ OF SECTION 20, T9S, R21E,
S.L.B.&M. UINTAH COUNTY, UTAH.

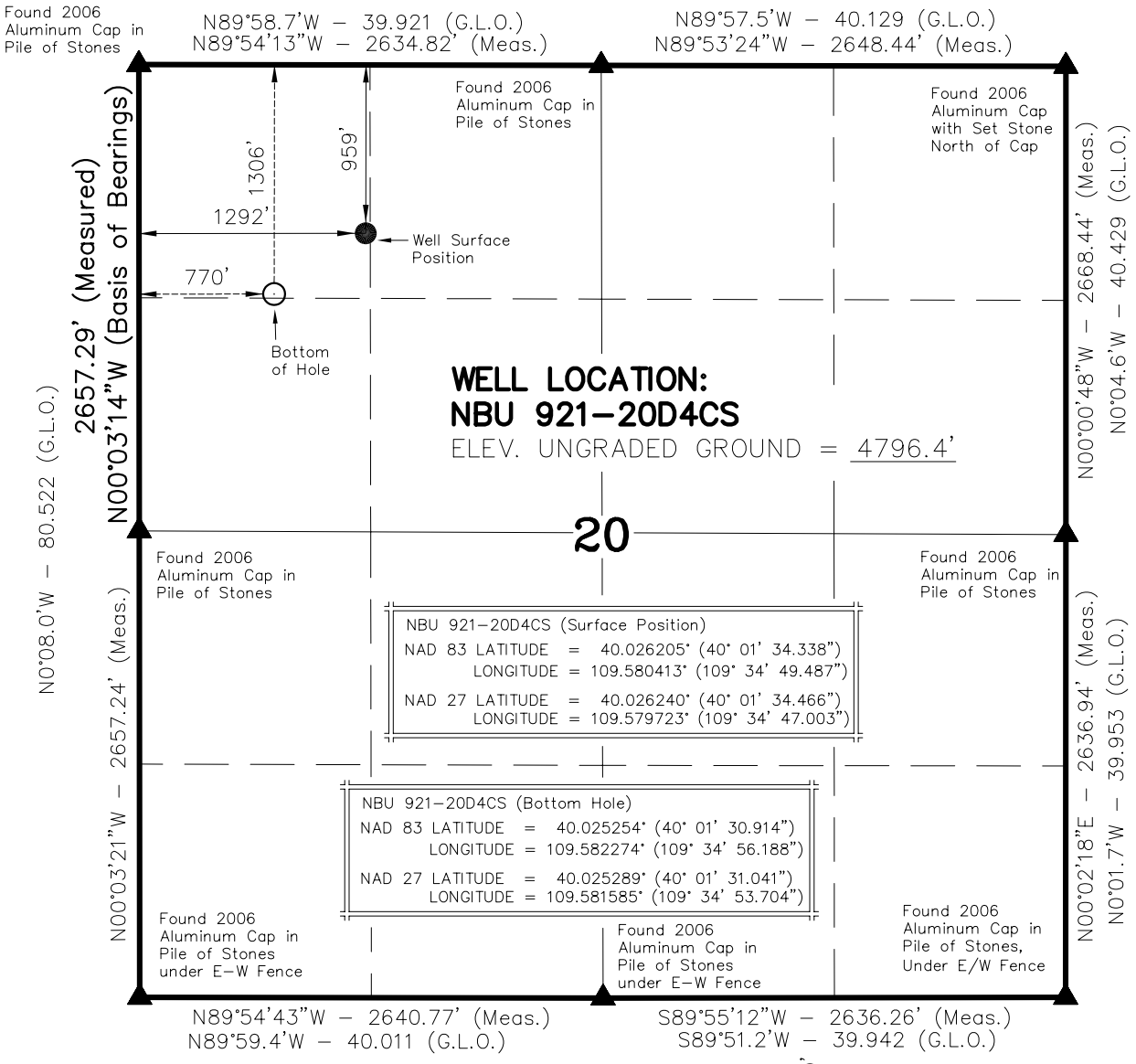
609
CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST – VERNAL, UTAH 84078

DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.	SHEET
DATE DRAWN: 02-25-09	DRAWN BY: K.K.O.	1
SCALE: 1" = 1000'	Date Last Revised: 02-27-09	OF 13

RECEIVED September 08, 2009

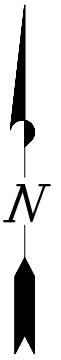
T9S, R21E, S.L.B.&M.

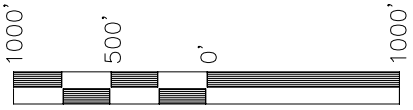


NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears S56°27'54"W 626.13' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



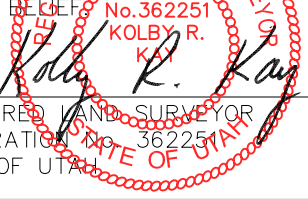


SCALE

SURVEYOR'S CERTIFICATE

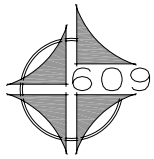
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH



Kerr-McGee
Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

NBU 921-20D4CS
WELL PLAT
1306' FNL, 770' FWL (Bottom Hole)
NW ¼ NW ¼ OF SECTION 20, T9S, R21E,
S.L.B.&M. UINTAH COUNTY, UTAH.



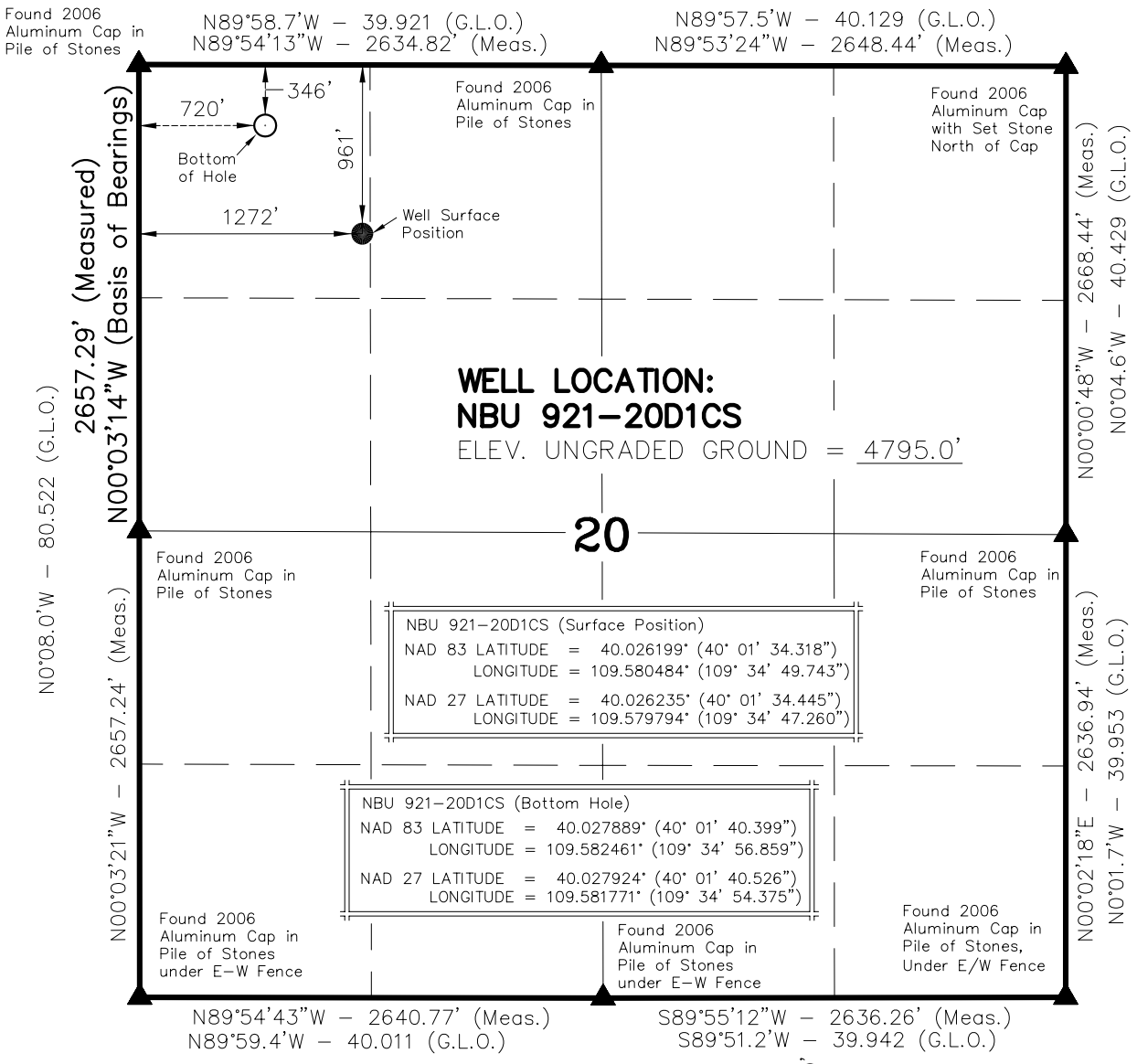
CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST – VERNAL, UTAH 84078

DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.	SHEET 2 OF 13
DATE DRAWN: 02-25-09	DRAWN BY: K.K.O.	
SCALE: 1" = 1000'	Date Last Revised:	

RECEIVED September 08, 2009

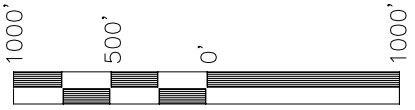
T9S, R21E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears N41°53'47"W 827.88' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

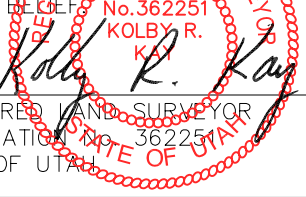


SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH



Kerr-McGee
Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

NBU 921-20D1CS
WELL PLAT
346' FNL, 720' FWL (Bottom Hole)
NW ¼ NW ¼ OF SECTION 20, T9S, R21E,
S.L.B.&M. UINTAH COUNTY, UTAH.

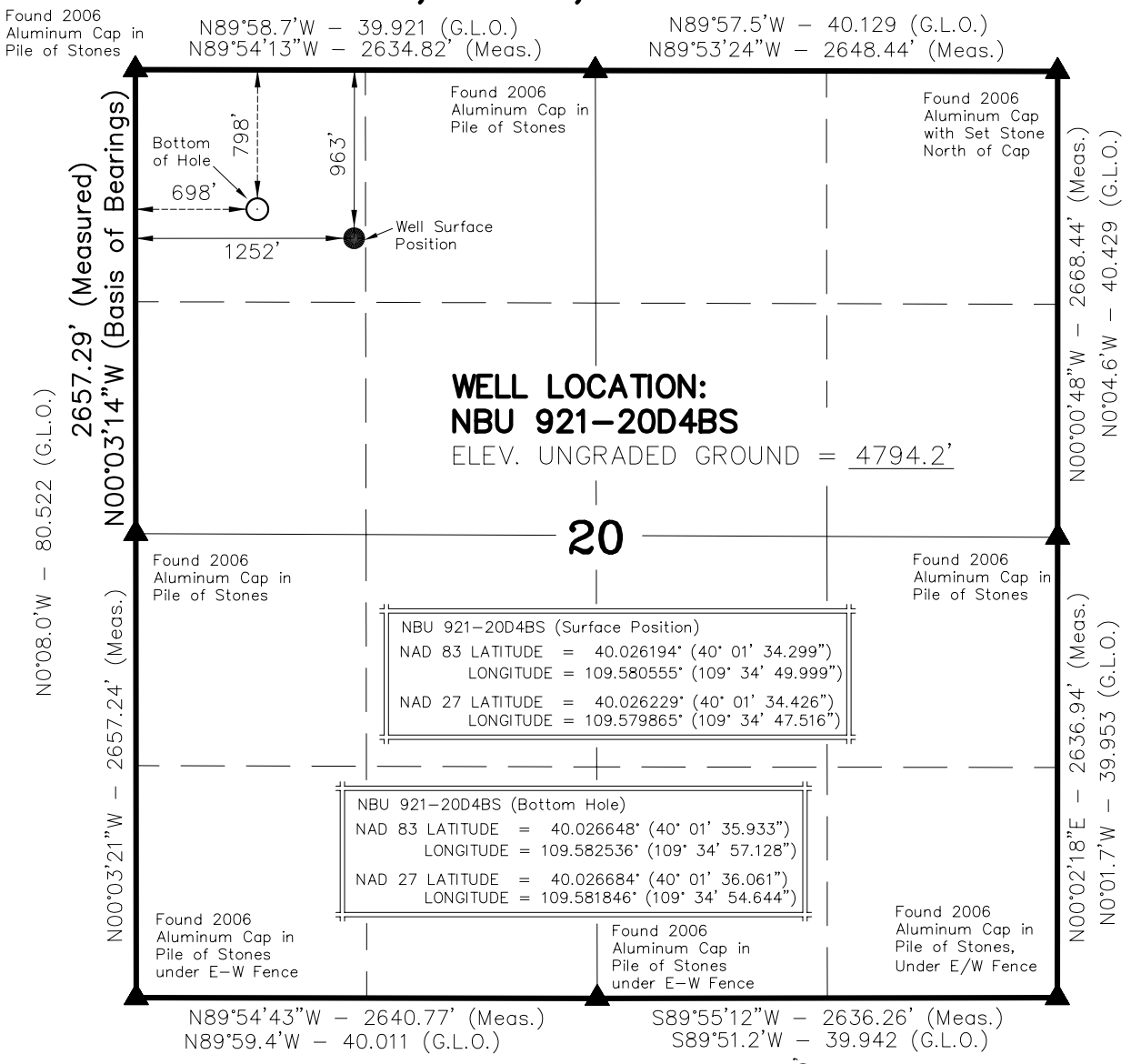
609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST – VERNAL, UTAH 84078

DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.	SHEET
DATE DRAWN: 02-25-09	DRAWN BY: K.K.O.	3
SCALE: 1" = 1000'	Date Last Revised: 02-27-09	OF 13

RECEIVED September 08, 2009

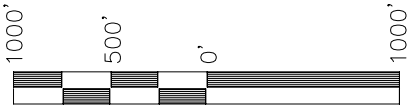
T9S, R21E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears N73°19'00"W 578.88' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

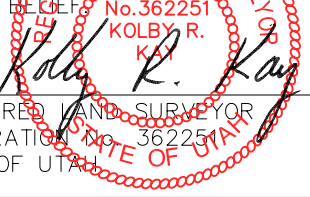


SCALE

SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH



Kerr-McGee
Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

NBU 921-20D4BS
WELL PLAT
798' FNL, 698' FWL (Bottom Hole)
NW ¼ NW ¼ OF SECTION 20, T9S, R21E,
S.L.B.&M. UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST – VERNAL, UTAH 84078

DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.	SHEET 4
DATE DRAWN: 02-25-09	DRAWN BY: K.K.O.	OF 13
SCALE: 1" = 1000'	Date Last Revised: 02-27-09	

RECEIVED September 08, 2009

WELL PAD INTERFERENCE PLAT

DIRECTIONAL PAD – NBU 921–20B3CS, NBU 921–20D4CS, NBU 921–20D1CS & NBU 921–20D4BS

BOTTOM HOLE FOOTAGES

NBU 921–20B3CS
1144' FNL, 2612' FEL

NBU 921–20D4CS
1306' FNL, 770' FWL

NBU 921–20D1CS
346' FNL, 720' FWL

NBU 921–20D4BS
798' FNL, 698' FWL

SURFACE POSITION FOOTAGES:

NBU 921–20B3CS
957' FNL, 1312' FWL

NBU 921–20D4CS
959' FNL, 1292' FWL

NBU 921–20D1CS
961' FNL, 1272' FWL

NBU 921–20D4BS
963' FNL, 1252' FWL

Natural Cotton 11–20 (Dry Hole Marker)
1001' FNL, 1019' FWL

RELATIVE COORDINATES
From Surface Position to Bottom Hole

WELL	NORTH	EAST
921–20B3CS	–189'	1358'
921–20D4CS	–346'	–522'
921–20D1CS	616'	–553'
921–20D4BS	166'	–555'

N

Az=318.10361°
N41°53'47"W – 827.88'
(To Bottom Hole)

Az=286.68333°
N73°19'00"W – 578.88'
(To Bottom Hole)

N84°14'18"E
Az=84.23833°

Az=97.92722°
S82°04'22"E – 1371.52'
(To Bottom Hole)

Az. to D.H.M.=260.89167° 236.7'
(Well bore buried, position determined with metal detector)

Az=236.46500°
S56°27'54"W – 626.13'
(To Bottom Hole)

20' 20' 20'

NBU 921–20D4BS
Az. to D.H.M.=261.17222° 256.7'

NBU 921–20D1CS
Az. to D.H.M.=261.38806° 276.7'

NBU 921–20D4CS
Az. to D.H.M.=261.57444° 296.8'

NBU 921–20B3CS

BASIS OF BEARINGS IS THE WEST LINE OF THE NW 1/4 OF SECTION 20, T9S, R21E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°03'14"W.

D.H.M. = Dry Hole Marker

LATITUDE & LONGITUDE
Bottom Hole – (NAD 83)

WELL	N. LATITUDE	W. LONGITUDE
921–20B3CS	40°01'32.507" 40.025696°	109°34'31.770" 109.575492°
921–20D4CS	40°01'30.914" 40.025254°	109°34'56.188" 109.582274°
921–20D1CS	40°01'40.399" 40.027889°	109°34'56.859" 109.582461°
921–20D4BS	40°01'35.933" 40.026648°	109°34'57.128" 109.582536°

LATITUDE & LONGITUDE
Surface Position – (NAD 83)

WELL	N. LATITUDE	W. LONGITUDE
921–20B3CS	40°01'34.359" 40.026211°	109°34'49.230" 109.580342°
921–20D4CS	40°01'34.338" 40.026205°	109°34'49.487" 109.580413°
921–20D1CS	40°01'34.318" 40.026199°	109°34'49.743" 109.580484°
921–20D4BS	40°01'34.299" 40.026194°	109°34'49.999" 109.580555°
Dry Hole Marker Natural Cotton 11–20	40°01'33.925" 40.026090°	109°34'53.002" 109.581390°

LATITUDE & LONGITUDE
Surface Position – (NAD 27)

WELL	N. LATITUDE	W. LONGITUDE
921–20B3CS	40°01'34.486" 40.026246°	109°34'46.747" 109.579652°
921–20D4CS	40°01'34.466" 40.026240°	109°34'47.003" 109.579723°
921–20D1CS	40°01'34.445" 40.026235°	109°34'47.260" 109.579794°
921–20D4BS	40°01'34.426" 40.026229°	109°34'47.516" 109.579865°
Dry Hole Marker Natural Cotton 11–20	40°01'34.053" 40.026126°	109°34'50.519" 109.580700°

LATITUDE & LONGITUDE
Bottom Hole – (NAD 27)

WELL	N. LATITUDE	W. LONGITUDE
921–20B3CS	40°01'32.635" 40.025732°	109°34'29.287" 109.574802°
921–20D4CS	40°01'31.041" 40.025289°	109°34'53.704" 109.581585°
921–20D1CS	40°01'40.526" 40.027924°	109°34'54.375" 109.581771°
921–20D4BS	40°01'36.061" 40.026684°	109°34'54.644" 109.581846°

60' 30' 0' 60'

SCALE

Kerr–McGee
Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

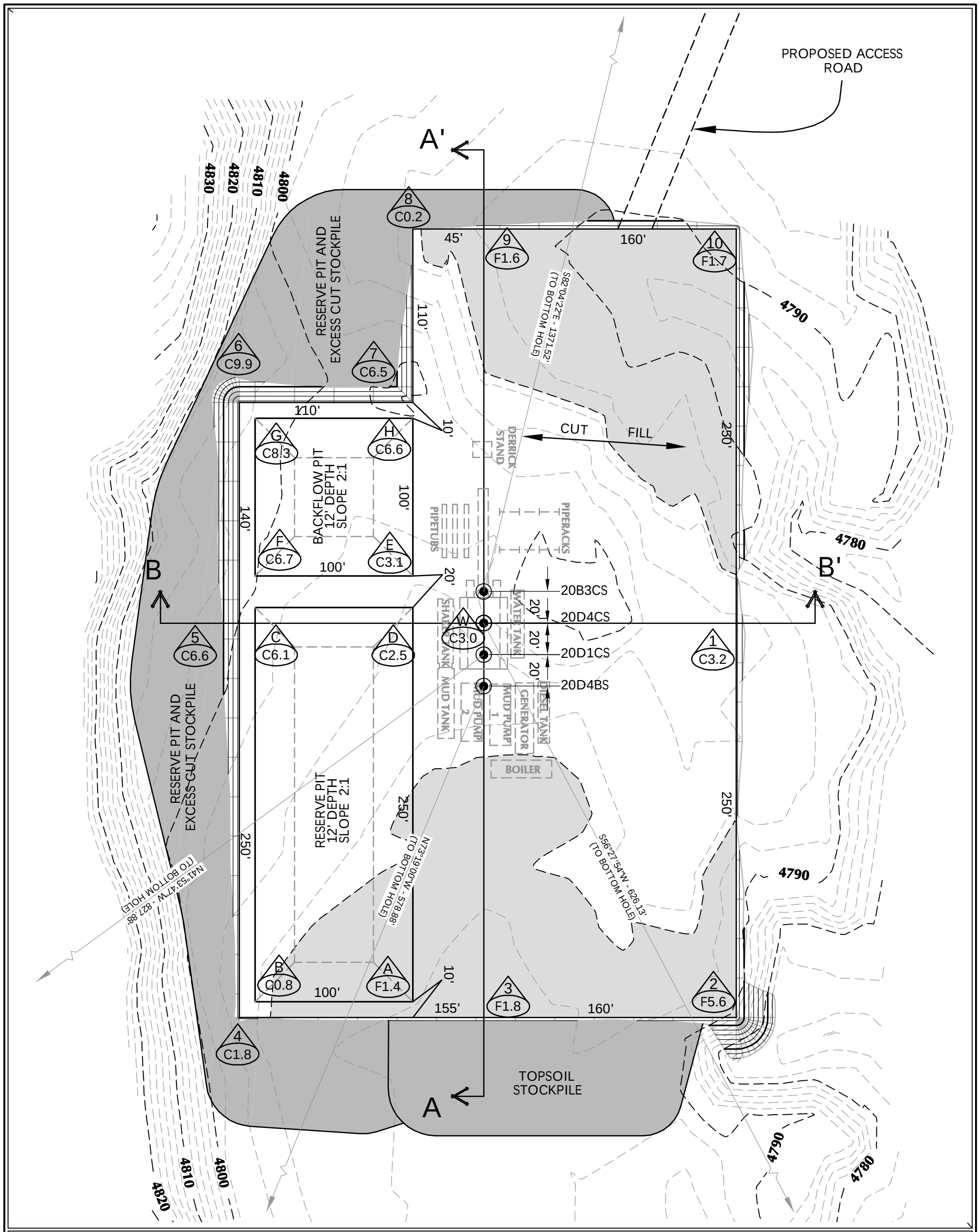
NBU 921-20B3CS, NBU 921-20D4CS, NBU 921-20D1CS & NBU 921-20D4BS LOCATED IN SECTION 20, T9S, R21E, S.L.B.&M. UINTAH COUNTY, UTAH.

CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.
DATE DRAWN: 02-26-09	DRAWN BY: K.K.O.
	REVISED:

Timberline Engineering & Land Surveying, Inc. (435) 789–1365
209 NORTH 300 WEST VERNAL, UTAH 84078

RECEIVED September 08, 2009



KERR-MCGEE OIL & GAS ONSHORE L.P.
1099 18th Street - Denver, Colorado 80202

WELL PAD - LOCATION LAYOUT
NBU 921-20B3CS, NBU 921-20D4CS,
NBU 921-20D1CS & NBU 921-20D4BS
LOCATED IN SECTION 20, T.9S., R.21E.
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

WELL PAD NBU 921-20D QUANTITIES

EXISTING GRADE @ CENTER OF WELL PAD = 4796.4'
FINISHED GRADE ELEVATION = 4793.4'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 9,912 C.Y.
TOTAL FILL FOR WELL PAD = 4,910 C.Y.
TOPSOIL @ 6" DEPTH = 2,886 C.Y.
EXCESS MATERIAL = 5,002 C.Y.
TOTAL DISTURBANCE = 3.58 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 28,730 BARRELS
RESERVE PIT VOLUME
+/- 7,720 CY
BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
+/- 9,490 BARRELS
BACKFLOW PIT VOLUME
+/- 2,660 CY

WELL PAD LEGEND

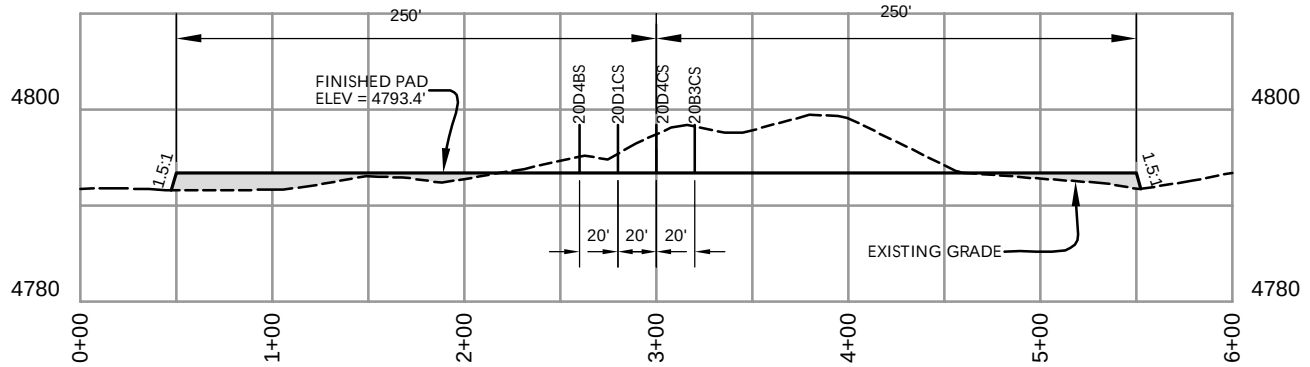
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)

HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS

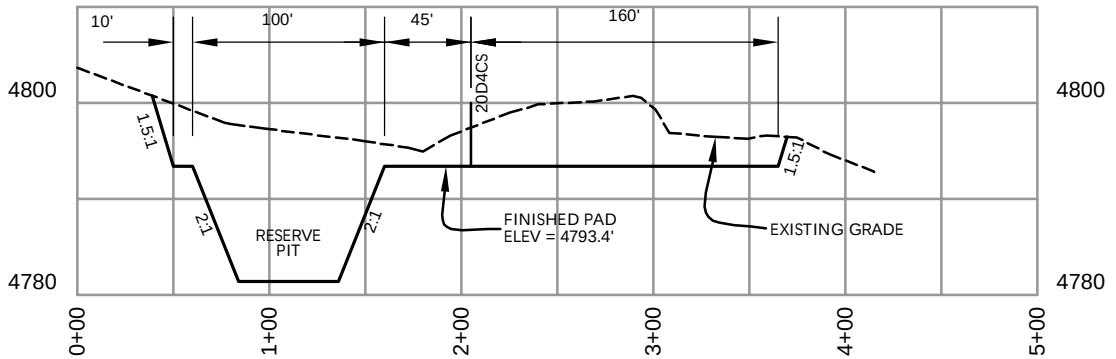
Scale: 1"=60'	Date: 3/17/09	SHEET NO:
REVISED:	RAW 9/01/09	6 6 OF 13

Timberline Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078 (435) 789-1365

ANADARKO\2008_27_NBU_Directional_Wells\DWG\NBU FINAL SEC 18,19,20.dwg, 20D, 9/1/2009 4:07:55 PM



CROSS SECTION A-A'



CROSS SECTION B-B'

NOTE: CROSS SECTION B-B' DEPICTS MAXIMUM RESERVE PIT DEPTH.

KERR-MCGEE OIL & GAS
ONSHORE L.P.
1099 18th Street - Denver, Colorado 80202

WELL PAD - CROSS SECTIONS
NBU 921-20B3CS, NBU 921-20D4CS,
NBU 921-20D1CS & NBU 921-20D4BS
LOCATED IN SECTION 20, T.9S., R.21E.
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

HORIZONTAL 0 50 100 1" = 100'
VERTICAL 0 10 20 1" = 20'

Scale: 1"=100'	Date: 3/17/09	SHEET NO:
REVISED:	RAW 9/01/09	7 OF 13

Timberline Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078 (435) 789-1365

RECEIVED September 08, 2009

K:\ANADARKO\2008_27_NBU_Directional_Wells\DWGS\NBU FINAL SEC 18,19,28.dwg, Model, 9/1/2009 4:10:13 PM

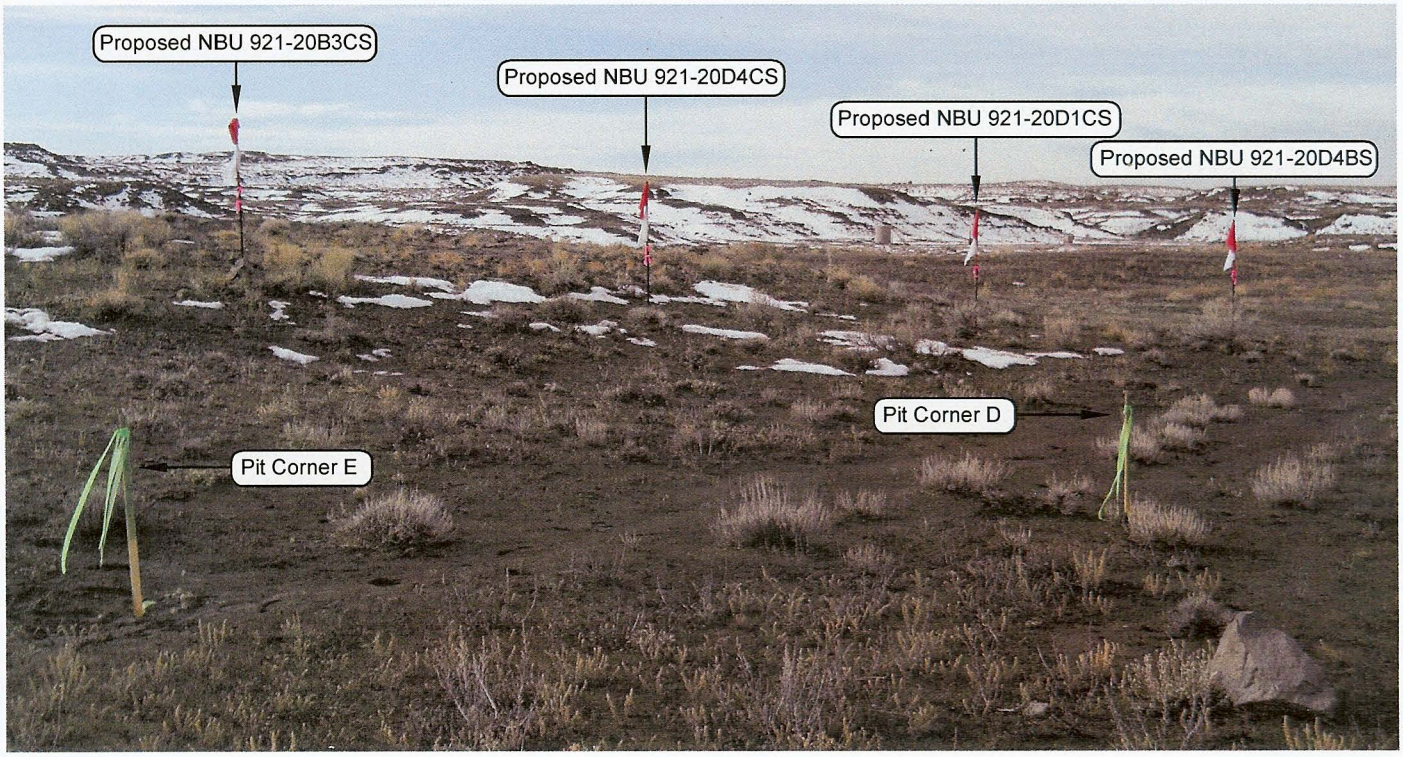


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES

CAMERA ANGLE: SOUTHERLY

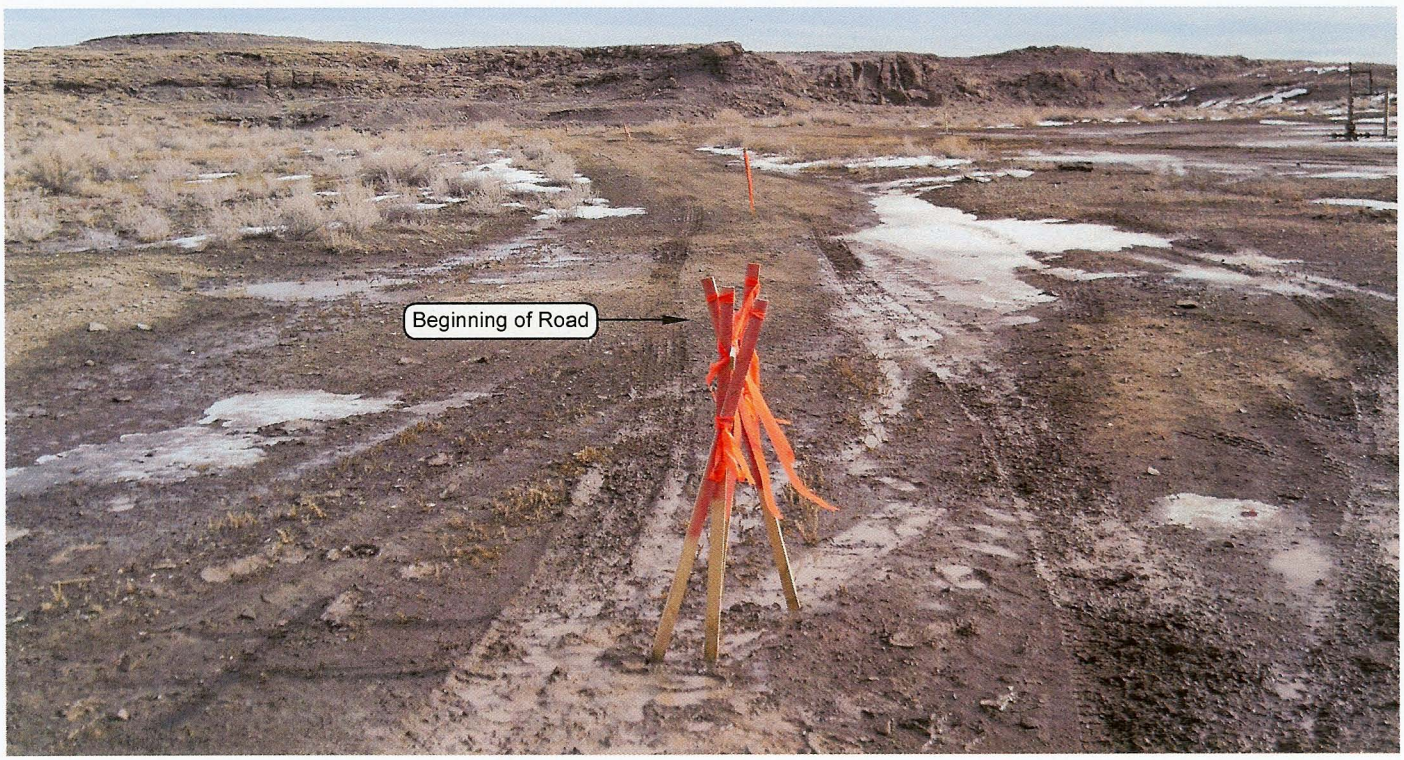


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

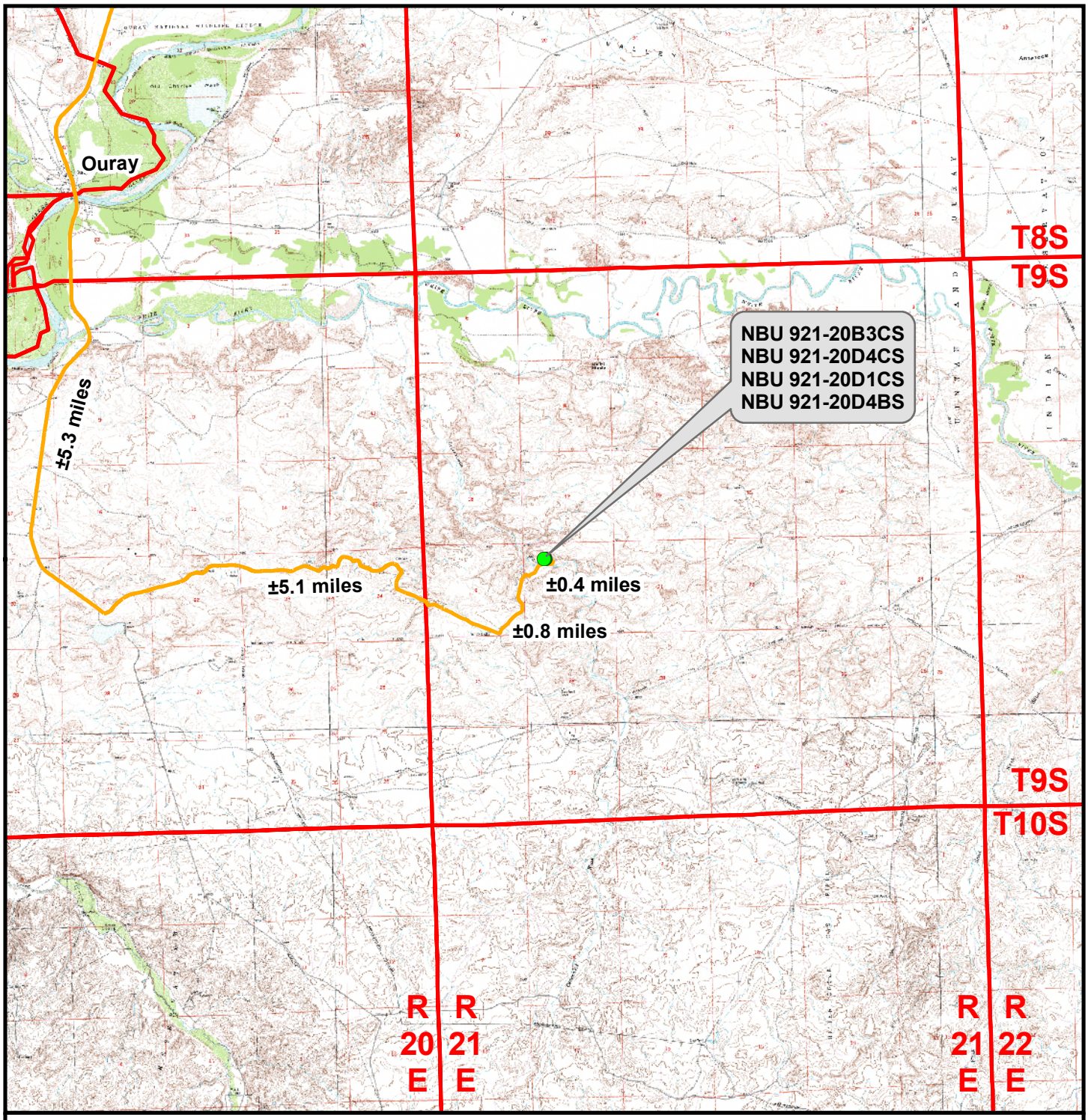
Kerr–McGee
Oil & Gas Onshore, LP
1099 18th Street – Denver, Colorado 80202

NBU 921-20B3CS, NBU 921-20D4CS,
NBU 921-20D1CS & NBU 921-20D4BS
LOCATED IN SECTION 20, T9S, R21E,
S.L.B.&M. UINTAH COUNTY, UTAH.

CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

LOCATION PHOTOS		DATE TAKEN: 01-16-09
		DATE DRAWN: 02-26-09
TAKEN BY: M.S.B.	DRAWN BY: E.M.S.	REVISED:

Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
209 NORTH 300 WEST VERNAL, UTAH 84078



Legend

- Proposed Well Location
- Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

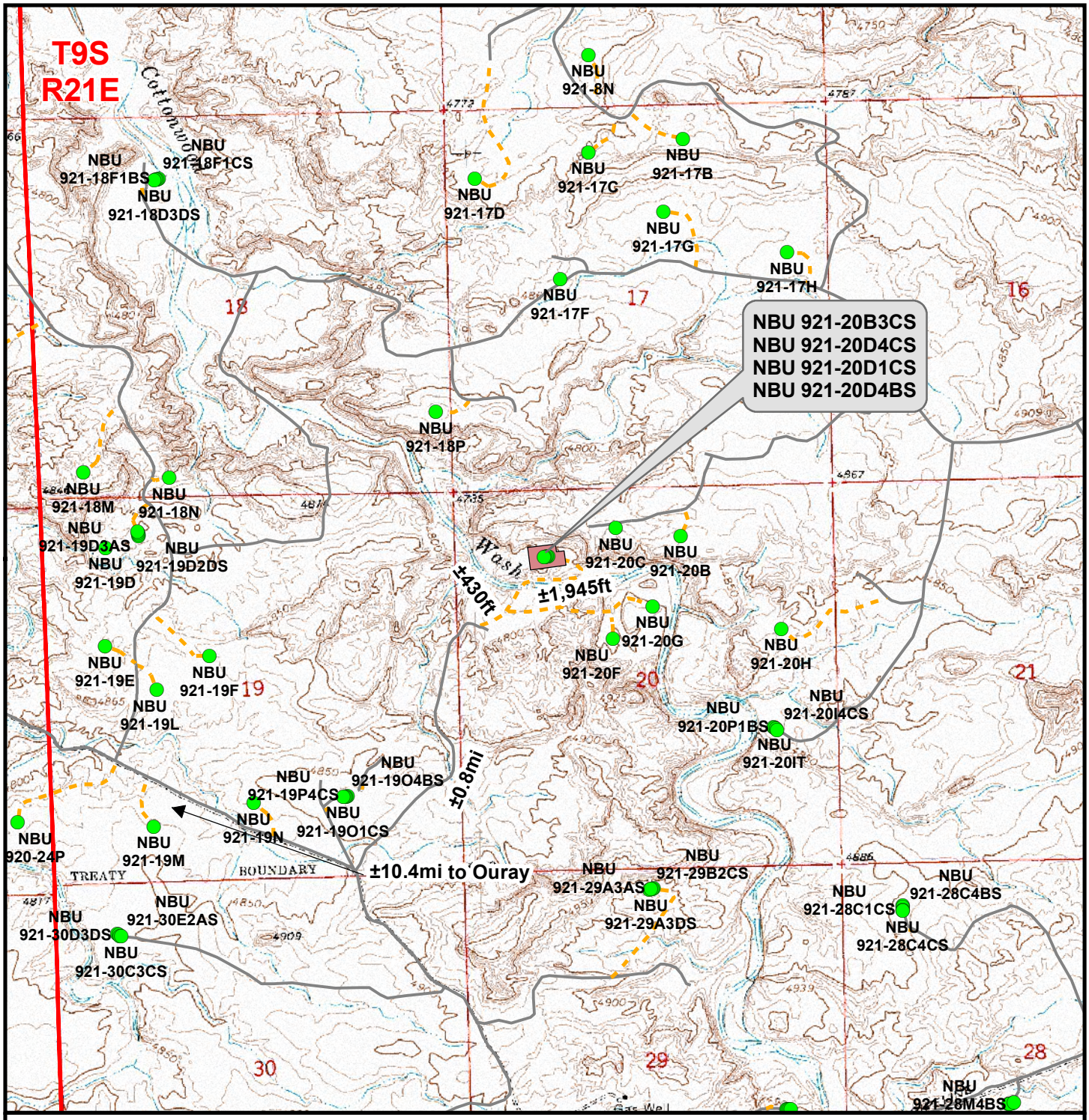
NBU 921-20B3CS, NBU 921-20D4CS, NBU 921-20D1CS & NBU 921-20D4BS
Topo A
Located In Section 20, T9S, R21E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1:100,000	NAD83 USP Central	Sheet No: 9	9 of 13
Drawn: JELo	Date: 24 Feb 2009		
Revised: TL	Date: 31 Aug 2009		

RECEIVED September 08, 2009



Legend

Well - Proposed | Well Pad | Road - Proposed | Road - Existing

Total Proposed Road Length: ±1,945ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

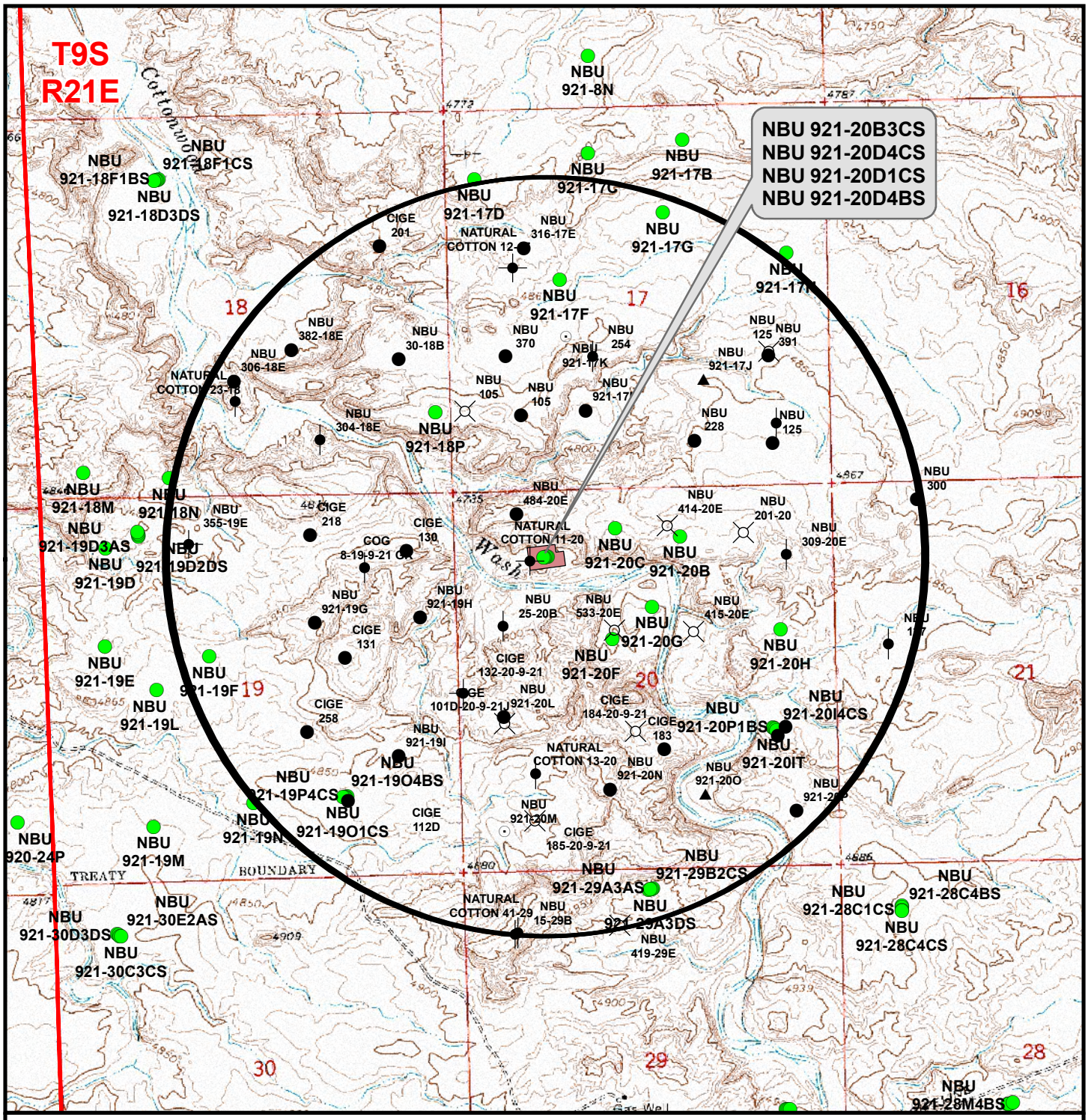
NBU 921-20B3CS, NBU 921-20D4CS, NBU 921-20D1CS & NBU 921-20D4BS
Topo B
Located In Section 20, T9S, R21E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 10 of 13	
Drawn: JELo	Date: 24 Feb 2009		
Revised: TL	Date: 31 Aug 2009		

RECEIVED September 08, 2009



Legend

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Well - Proposed
- Well - 1 Mile Radius
- Well Pad
- Producing
- Approved permit (APD); not yet spudded
- Spudded (Drilling commenced: Not yet comple
- Location Abandoned
- Temporarily-Abandoned
- Plugged and Abandoned
- Shut-In

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

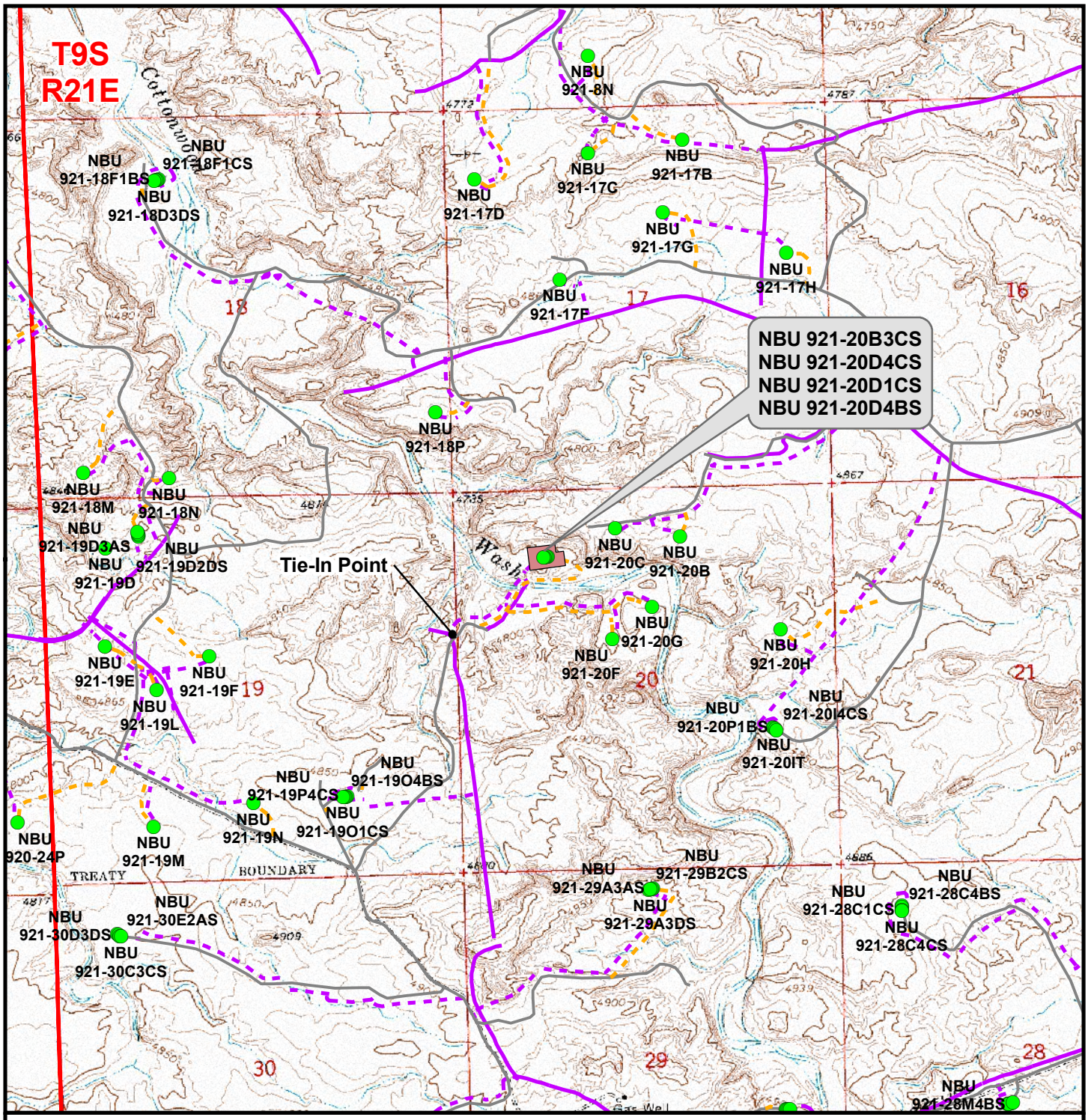
NBU 921-20B3CS, NBU 921-20D4CS, NBU 921-20D1CS & NBU 921-20D4BS
Topo C
Located In Section 20, T9S, R21E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 11 of 13	
Drawn: JELo	Date: 24 Feb 2009		
Revised: TL	Date: 31 Aug 2009		

RECEIVED September 08, 2009



Legend

Well - Proposed | Well Pad | Road - Proposed | Pipeline - Proposed | Road - Existing | Pipeline - Existing

Proposed Pipeline Length From Tie-In Point To Edge Of Pad: ±1,580ft
Proposed Pipeline Length Around Pad: ±660ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

NBU 921-20B3CS, NBU 921-20D4CS, NBU 921-20D1CS & NBU 921-20D4BS
Topo D
Located In Section 20, T9S, R21E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 12	12 of 13
Drawn: JELo	Date: 24 Feb 2009		
Revised: TL	Date: 31 Aug 2009		

RECEIVED September 08, 2009

Kerr-McGee Oil & Gas Onshore, LP
NBU 921-20B3CS NBU 921-20D4CS NBU 921-20D1CS NBU 921-20D4BS
Section 20, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 5.3 MILES TO THE INTERSECTION OF A SERVICE ROAD TO THE EAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY THEN SOUTHEASTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 5.1 MILES TO A SECOND SERVICE ROAD TO THE NORTHEAST. EXIT LEFT AND PROCEED IN A NORTH BY NORTHEAST DIRECTION ALONG THE SECOND SERVICE ROAD APPROXIMATELY 0.8 MILES TO THE TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A NORTHEASTERLY, THEN EASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 2,370 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE WELL LOCATION IS APPROXIMATELY 42.3 MILES IN A SOUTHERLY DIRECTION.

RECEIVED September 08, 2009

API Well No: 43047505970000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20D4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047505970000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0963 FNL 1252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 8/9/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: August 09, 2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 8/9/2010

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047505970000

API: 43047505970000
Well Name: NBU 921-20D4BS
Location: 0963 FNL 1252 FWL QTR NWNW SEC 20 TWNP 090S RNG 210E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 8/10/2009

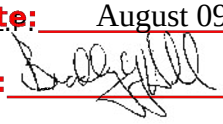
The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
- **Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?** ○ **Yes** ◉ **No**
- **Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?** ○ **Yes** ◉ **No**
- **Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location?** ○ **Yes** ◉ **No**
- **Has the approved source of water for drilling changed?** ○ **Yes** ◉ **No**
- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot **Date:** 8/9/2010
Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: August 09, 2010

By: 

RECEIVED August 09, 2010

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20D4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047505970000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0963 FNL 1252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 5/11/2011	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	✓ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests to change the total depth (TD) to include the Blackhawk formation, which is in the Mesaverde group for this well. Please see attached for additional details. Please contact the undersigned if you have any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: 05/11/2011

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 5/10/2011

RECEIVED May. 10, 2011

KerrMcGee

KERR-McGEE OIL & GAS ONSHORE LP

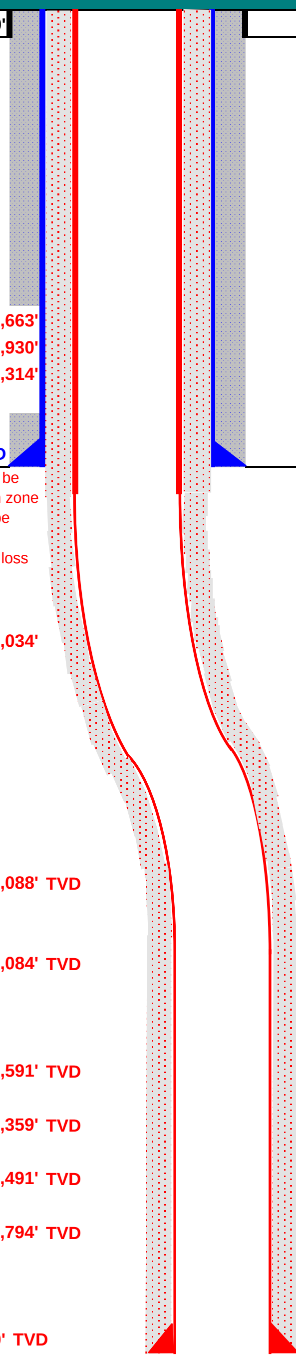
DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	May 10, 2011
WELL NAME	**NBU 921-20D4BS**	TD	11,400' TVD 11,473' MD
FIELD	Natural Buttes COUNTY Uintah STATE Utah	FINISHED ELEVATION	4,794'
SURFACE LOCATION	NWNW 963 FNL 1252 FWL Sec 20 T 9S R 21E		
	Latitude: 40.026194 Longitude: -109.580555 NAD 83		
BTM HOLE LOCATION	NWNW 798 FNL 698 FWL Sec 20 T 9S R 21E		
	Latitude: 40.026684 Longitude: -109.582536 NAD 83		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), TRIBAL (Surface), UDOGM Tri-County Health Dept.		

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12.25'	9-5/8", 36#, IJ-55, LTC	Air mist
	Green River @	1,663'			
	Top of Birds Nest @	1,930'			
	Mahogany @	2,314'			
	Preset f/ GL @	2,760' MD			
Mud logging program TBD Cased hole logging program from TD - surf csg	Wasatch @	5,034'	7-7/8"	4-1/2" 11.6# HCP-110 or equivalent BTC/LTC csg	Water / Fresh Water Mud 8.3-12.0 ppg
	Mverde @	8,088' TVD			
	MVU2 @	9,084' TVD			
	MVU1 @	9,591' TVD			
	Sego @	10,359' TVD			
	Castlegate @	10,491' TVD			
	MN5 @	10,794' TVD			
Max anticipated Mud required 12.0 ppg	TD @	11,400' TVD 11,473' MD			

All water flows encountered while drilling will be reported to the appropriate agencies.

Note: 12.25" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.



RECEIVED May. 10, 2011

KerrMcGee

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	LTC TENSION	BTC TENSION
CONDUCTOR	14"	0-40'									
								3,390	1,880	348,000	N/A
SURFACE	9-5/8"	0	to	2,760	36.00	J-55	LTC	1.96	1.46	4.00	N/A
								10,690	8,650	279,000	367,000
PRODUCTION	4-1/2"	0	to	11,473	11.60	HCP-110	LTC or BTC	1.19	1.22	2.57	3.38

Surface Casing:

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	220	60%	15.80	1.15
Option 1			+ 0.25 pps flocele				
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	330	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	2,260'	65/35 Poz + 6% Gel + 10 pps gilsonite	260	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	190	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,533'	Premium Lite II +0.25 pps	360	35%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	6,940'	50/50 Poz/G + 10% salt + 2% gel	1,640	35%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: ______________________ **DATE:** ______________

Nick Spence / Emile Goodwin

DRILLING SUPERINTENDENT: ______________________ **DATE:** ______________

Kenny Gathings / Lovel Young

RECEIVED May. 10, 2011

Form 3160-3
(August 2007)

RECEIVED
JUL 22 2009
BLM

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER	5. Lease Serial No. UTU0575
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA Agreement, Name and No. 891008900A
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone	8. Lease Name and Well No. NBU 921-20D4BS
2. Name of Operator KERRMCGEE OIL&GAS ONSHORE LP — Contact: DANIELLE E PIERNOT — E-Mail: Danielle.Piernot@anadarko.com	9. API Well No. 43-047-50597
3a. Address PO BOX 173779 DENVER, CO 80202-3779 — 3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156	10. Field and Pool, or Exploratory NATURAL BUTTES
4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface NWNW 963FNL 1252FWL 40.02619 N Lat, 109.58056 W Lon — At proposed prod. zone NWNW 798FNL 698FWL 40.02665 N Lat, 109.58254 W Lon	11. Sec., T., R., M., or Blk. and Survey or Area Sec 20 T9S R21E Mer SLB
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 12 MILES SOUTHEAST OF OURAY, UTAH	12. County or Parish UINTAH — 13. State UT
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 698 FEET — 16. No. of Acres in Lease 1600.00	17. Spacing Unit dedicated to this well
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 450 FEET — 19. Proposed Depth 10403 MD 10330 TVD	20. BLM/BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, KB, RT, GL, etc. 4794 GL — 22. Approximate date work will start 08/10/2009	23. Estimated duration 60-90 DAYS

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature	Name (Printed/Typed)	Date
(Electronic Submission)	DANIELLE E PIERNOT Ph: 720-929-6156	07/22/2009

Title: REGULATORY ANALYST

Approved by (Signature)	Name (Printed/Typed)	Date
	Jerry Kenczka	APR 26 2011
Title: Assistant Field Manager Lands & Mineral Resources	Office: VERNAL FIELD OFFICE	

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached. CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
MAY 02 2011
DIV. OF OIL, GAS & MINING

Additional Operator Remarks (see next page)

Electronic Submission #72406 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal
Committed to AFMSS for processing by GAIL JENKINS on 07/27/2009 ()

NOTICE OF APPROVAL
UDOGM

NOS APD POSTED 07-27-09

AFMSS#

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

696XJ5477AE NONOS

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE
170 South 500 East VERNAL, UT 84078 (435) 781-4400

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Kerr McGee Oil & Gas Onshore**	**Location:**	**NWNW, Sec. 20, T9S, R21E**
Well No:	**NBU 921-20D4BS**	**Lease No:**	**UTU-0575**
API No:	**43-047-50597**	**Agreement:**	**Natural Buttes Unit**

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.

- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

- Paint facilities "Shadow Gray."

- Construct a low-water crossing where the access road crosses Cottonwood Was and apply 100-year floodplain standards.

- Obtain a 404 permit from the Army Corps of Engineers prior to burying the new gathering line and an existing pipeline under Cottonwood Wash.

- Construct the new gathering line and bury the existing pipeline according to the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels.

- Monitoring by a permitted paleontologist during construction operations.

- Monitoring by a permitted archaeologist during the construction process.

- In accordance with the guidelines specified in the Utah BLM Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix D), a raptor survey shall be conducted prior to construction of the proposed location, pipeline, or access road if construction will take place during raptor nesting season (January 1 through September 30) and conduct its operations according to specifications in the guidelines.

- If project construction operations are not initiated before June 18, 2010, KMG shall conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation according to its specifications.

BIA Standard Conditions of Approval:

- Soil erosion will be mitigated by reseeding all disturbed areas.

- The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not

parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.

- An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.

- The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.

- A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.

- Major low water crossings will be armored with pit run material to protect them from erosion.

- All personnel shall refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.

- If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

- Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.

- Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.

- If project construction operations are scheduled to occur after December 31, 2009, KMG shall conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002. If active raptor nests are indentified during a new survey, KMG shall conduct its operations according to the seasonal restrictions detailed in the Uinta basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (See Appendix D).

- USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix D).

- All personnel shall refrain from collecting artifacts and from disturbing any significant cultural resources in the area.

- If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- A Gama Ray Log shall be run from TD to surface.

Variances Granted:

Air Drilling:

- Properly lubricated and maintained rotating head, variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for two truck/trailer mounted air compressors located within 40 feet from the well bore and 60' from the blooie line.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for kill fluid.
- Automatic igniter. Variance granted for igniter due to there being no productive formations while drilling with air.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
    - Operator name, address, and telephone number.
    - Well name and number.
    - Well location (¼¼, Sec., Twn, Rng, and P.M.).
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
    - Unit agreement and/or participating area name and number, if applicable.
    - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs,

core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By ANDY LYTLE Phone Number 720.929.6100
Well Name/Number NBU 921-20D4BS
Qtr/Qtr NWNW Section 20 Township 9S Range 21E
Lease Serial Number UTU0575
API Number 4304750597

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 05/19/2011 08:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☑ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

RECEIVED
MAY 18 2011
DIV. OF OIL, GAS & MINING

Date/Time 06/01/2011 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT 435.828.0986 OR LOVEL YOUNG AT 435.781.7051

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20D4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047505970000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0963 FNL 1252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
✓ SPUD REPORT Date of Spud: 5/19/2011	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 05/19/2011 AT 0900 HRS.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 5/20/2011

RECEIVED May. 20, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20D4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047505970000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0963 FNL 1252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 5/31/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU AIR RIG ON MAY 28, 2011. DRILLED SURFACE HOLE TO 2840'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 6/1/2011

RECEIVED Jun. 01, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078
Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750597	NBU 921-20D4BS		NWNW	20	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	5/19/2011			5/31/11	
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL ON 05/19/2011 AT 0900 HRS BHL = N WNW							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750596	NBU 921-20D1CS		NWNW	20	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	5/19/2011			5/31/11	
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL ON 05/19/2011 AT 1200 HRS BHL = NWNW							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750598	NBU 921-20D4CS		NWNW	20	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	5/19/2011			5/31/11	
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL ON 05/19/2011 AT 1500 HRS. BHL = NWNW							

ACTION CODES:
- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA WOPSOCK
Name (Please Print)
Signature
REGULATORY ANALYST
Title
5/20/2011
Date

RECEIVED
MAY 23 2011
DIV. OF OIL, GAS & MINING

(5/2000)

Carol Daniels - BOP TEST NBU 921-20D4BS T 09S R 21E S-20 43-047-50597

From: "Anadarko - H&P 298"
To:
Date: 6/13/2011 9:00 AM
Subject: BOP TEST NBU 921-20D4BS

Carol,
Moving H&P rig 298 to NBU921-20D4BS will be doing the inital bop test tuesday morning 6/14/2011 @ around 0600 hrs.,

Thanks
JIM MURRAY
H&P 298
435 828-0957

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20D4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047505970000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0963 FNL 1252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 6/24/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU ROTARY RIG. FINISHED DRILLING FROM 2840' TO 11,480' ON JUNE 22, 2011. RAN 4-1/2" 11.6# P-110 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED H&P RIG 298 ON JUNE 24, 2011 @ 06:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 6/27/2011

RECEIVED Jun. 27, 2011

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20D4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047505970000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0963 FNL 1252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 9/22/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 09/22/2011 AT 3:00 PM. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 9/29/2011

RECEIVED Sep. 29, 2011

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. UTU0575

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. UTU63047A

2. Name of Operator KERR MCGEE OIL & GAS ONSHORE LP — Contact: JAIME L. SCHARNOWSKE — E-Mail: JAIME.SCHARNOWSKE@ANADARKO.COM

8. Lease Name and Well No. NBU 921-20D4BS

3. Address PO BOX 173779 DENVER, CO 80217

3a. Phone No. (include area code) Ph: 720-929-6304

9. API Well No. 43-047-50597

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface NWNW 963FNL 1252FWL 40.026229 N Lat, 109.579865 W Lon

At top prod interval reported below NWNW 779FNL 695FWL

At total depth NWNW 837FNL 712FWL BHL by HSM

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 20 T9S R21E Mer SLB

12. County or Parish UINTAH

13. State UT

14. Date Spudded 05/19/2011

15. Date T.D. Reached 06/22/2011

16. Date Completed ☐ D & A ☒ Ready to Prod. 09/22/2011

17. Elevations (DF, KB, RT, GL)* 4793 GL

18. Total Depth: MD 11480 TVD 11419

19. Plug Back T.D.: MD 11430 TVD 11369

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
SCBL-ANISOTROPY-BHV-ROCKMECHANICS-SEMBLANCE-WSTT-X

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
12.250	9.625 J-55	40.0	0	2836		525		0	
7.875	4.500 P-110	11.6	0	11472		2040		414	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	11026							

25. Producing Intervals / 26. Perforation Record

	Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)	MESAVERDE	8003	11219	8003 TO 11219	0.360	236	OPEN
B)	WSMVD						
C)							
D)							

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8003 TO 11219	PUMP 19,678 BBLS SLICK H2O & 487,431 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
09/22/2011	10/04/2011	24	→	0.0	4712.0	805.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
20/64	690 SI	293.0	→	0	4712	805		PGW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

RECEIVED
NOV 0 1 2011
DIV. OF OIL, GAS & MINING

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #121127 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER	1665
				BIRD'S NEST	1917
				MAHOGANY	2352
				WASATCH	5098
				MESAVERDE	7993

32. Additional remarks (include plugging procedure):
Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #121127 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal

Name *(please print)* JAIME L. SCHARNOWSKE Title REGULATORY ANALYST

Signature (Electronic Submission) Date 10/24/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011	
Project: UTAH-UINTAH	Site: NBU 921-20D PAD		Rig Name No: H&P 298/298, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/9/2011		End Date: 6/24/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/28/2011	14:00 - 22:00	8.00	DRLSUR	01	A	P		MOVE RIG TO NBU 920-20D PAD 6 MILE MOVE ROAD VERY ROUGH
	22:00 - 23:00	1.00	DRLSUR	14	A	P		WELD ON RISER AND RIG UP FLOW LINE
	23:00 - 0:00	1.00	DRLSUR	08	A	Z		FORK LIFT BROKEN DOWN HYDRAULIC HOSE BLOWN COULD NOT UNOAD BHA
5/29/2011	0:00 - 2:00	2.00	DRLSUR	08	A	Z		FORK LIFT BROKEN DOWN HYDRAULIC HOSE BLOWN COULD NOT UNOAD BHA
	2:00 - 3:00	1.00	DRLSUR	06	A	P		PICK UP MUD MOTOR AND 12.25" BIT
	3:00 - 4:30	1.50	DRLSUR	02	C	P		SPUD WELL DRILL 12.25" HOLE F/ 40' - 227' WOB 8-20 ROT 45-55 DHR 96 GPM 600 NO LOSSES
	4:30 - 7:30	3.00	DRLSUR	06	A	P		TOOH AND PICK UP DIRECTIONAL TOOLS AND INSTALL MWD TOOL AND ORIENT TO MUD MOTOR TIH
	7:30 - 14:00	6.50	DRLSUR	02	C	P		DRILL 12..25" HOLE F/ 227' - 1247' AVE ROP 156 FT HR WOB 20-22 ROT 45-55 DHR 96 GPM 600 NO LOSSES LAST SURVEY 13.63 DEG 286.83 AZI
	14:00 - 14:30	0.50	DRLSUR	07	A	P		DAILY RIG SERVICE
	14:30 - 0:00	9.50	DRLSUR	02	C	P		DRILL 12..25" HOLE F/ 1247' - 1785' AVE ROP 56 FT HR WOB 20-22 ROT 45-55 DHR 96 GPM 600 NO LOSSES LAST SURVEY 13.01 DEG 288.07 AZI
5/30/2011	0:00 - 14:00	14.00	DRLSUR	02	C	P		DRILL 12.25" HOLE F/ 1785' - 2840' T.D. AVE ROP 75 WOB 20-22 ROT 45-55 DHR 96 GPM 600 NO LOSSES LAST SURVEY 13.01 DEG 287.97 AZI 2' HIGH AND 1.5' LEFT OF LINE
	14:00 - 16:30	2.50	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS
	16:30 - 20:30	4.00	DRLSUR	06	A	P		BREAK DOWN DIRECTIONAL TOOLS AND BHA FOR INSPECTION
	20:30 - 0:00	3.50	DRLSUR	12	C	P		FULL RETURNS THROUGH OUT CASING RUN RUN 68 JOINTS OF 9.625 40# J55 CASING SHOE AT 2808' BAFFLE AT 2766'
5/31/2011	0:00 - 2:00	2.00	DRLSUR	12	E	P		TEST LINES TO 2500 PSI // PUMP 25 BBL SPACER // LEAD= 200 SX CLASS G CMT @ 3.83 YIELD & 11.0 WT // TAIL= 225 SX CLASS G CMT @ 1.15 YIELD & 15.8 WT // DROP PLUG & DIEPLACE W/ 158 BBL'S WATER // PLUG DN // BUMP PLUG W/ 625 PSI // FINAL LIFT = 245 PSI // CHECK FLOATS- HELD W/ 2 BBL'S BACK // 20 BBLS TO SURFACE
	2:00 - 2:30	0.50	DRLSUR	14	A	P		CUT CONDUCTOR AND HANG OFF 9 5/8 CASING
	2:30 - 4:00	1.50	DRLSUR	12	E	P		RUN 160' OF 1" PIPE AND PUMP 11 SX OF TAIL CEMENT CEMENT FELL WILL TOP OUT ON NEXT JOB. RELEASE RIG @ 0400

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011	
Project: UTAH-UINTAH	Site: NBU 921-20D PAD		Rig Name No: H&P 298/298, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/9/2011		End Date: 6/24/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	4:00 - 4:00	0.00	DRLSUR					CONDUCTOR CASING: Cond. Depth set:40 Cement sx used:28 SPUD DATE/TIME:5/29/2011 3:00 SURFACE HOLE: Surface From depth:40 Surface To depth:2,840 Total SURFACE hours:31.50 Surface Casing size:9-5/8" # of casing joints ran: Casing set MD:2,808.0 # sx of cement:200/225/100 Cement blend (ppg:)11/15.8/15/8 Cement yield (ft3/sk):3.82/1.15/1.15 # of bbls to surface:35 Describe cement issues: NONE Describe hole issues:NONE
6/12/2011	0:00 - 7:00	7.00	RDMO	01	E	P		RDMO- PREP RIG FOR TRUCKS
	7:00 - 20:00	13.00	RDMO	01	A	P		SAFETY MEETING WITH RIG CREWS, TRUCKING CREW & CRANE CREW / 6 BED TRUCKS 4 HAUL TRUCKS, TWO FORKLIFTS & ONE CRANE ON LOCATION @ 07:00 /,MOVE CAMPS TO NEW LOC & RIG UP/ LOAD OUT & MOVE BACK YARD./ SET IN BACK YARD & R/U PUMPS MCC HOUSE,WATER TANK ,VFD, GENS & DIESELTANK / PLUG IN ELECTRIC CORDS / LOWER DERRICK SPLIT & LOAD OUT / LOWER SUB / & LOAD OUT TRUCKERS LEFT LOCATION @ 1800 HRS DUE TO D.O.T REGULATIONS / SET SKID RAILS W/ CRANE & RIG CREWS / SFTN / RIG 95% MOVED 35% RIGGED UP/ H&P 10 MEN 14 HRS
	20:00 - 0:00	4.00	RDMO	21	C	P		WAIT ON DAYLIGHT
6/13/2011	0:00 - 6:00	6.00	MIRU	21	B	P		WAIT ON DAYLIGHT
	6:00 - 0:00	18.00	MIRU	01	B	P		HSM / FINISH HAULING LAST LOADS TO LOC / SET DRAWWORKS SET & PIN SUB STRUCTURE+COMPONENTS / SUB UP @ 09:00 HRS,RAISE SHAKERS SET & RAISE DOGHOUSE,SET IN GAS BUSTER/ RELEASED 4 HAUL TRUCKS / 2 BED TRUCKS @11:00/ SET IN DERRICK & REASSEMBLE / PURGE & PIN CYLINDERS TO DERRICK / RAISE DERRICK TO RIG FLOOR & PIN /MOVE CYLINDERS TO RAISE POSITION, RAISE DERRICK UP @ 1500 / FINISH SET IN RIG, ,BOP HANDLER,FRAC TANKS CMT SILOS/ CAT WALK & STAIRS/ SET IN FLOW LINE / FLARE LINES/TRUCKS GONE @15:30 CRANE @16:30 / POWER UP RIG / SPOOL DRILL LINE, UNPIN TOP DRIVE/ DRESS RIG FLOOR ,ELECTRIC,WATER,AIR,I RIG UP CIRC PUMPS / NSTALL BAILS & ELEVATORS
6/14/2011	0:00 - 2:00	2.00	MIRU	01	B	P		SET SKID RAMS,CENTER RIG OVER WELL
	2:00 - 8:00	6.00	PRPSPD	14	B	P		NIPPLE UP BOPE

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011	
Project: UTAH-UINTAH	Site: NBU 921-20D PAD		Rig Name No: H&P 298/298, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/9/2011		End Date: 6/24/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	8:00 - 15:30	7.50	PRPSPD	15	A	P		PRESSURE TEST PIPE RAMS, BLIND RAMS, IBOP, FLOOR VALVE, KILL LINES & KILL LINE VALVES, BOP WING VALVES , HCR VALVE + CHOKE LINE; INNER AND OUTER CHOKE VALVES & MANIFOLD TO 250 PSI LOW @ 5 MINUTES + 5000 PSI HIGH @ 10 MINUTES / TEST ANNULAR TO 250 PSI LOW @ 5 MINUTES + 2500 PSI HIGH @ 10 MINUTES / TEST SUPER CHOKE + SURFACE CASING TO 1500 PSI @ 30 MINUTES - CHANGE OUT IBOP VALVE
	15:30 - 16:00	0.50	PRPSPD	14	B	P		SET WEAR BUSHING
	16:00 - 16:00	0.00	PRPSPD	23		P		PRE SPUD INSPECTION
	16:00 - 21:30	5.50	PRPSPD	06	A	P		HSM W/ WEATHERFORD PICK UP BHA & DIR TOOLS,ORIENT & SURFACE TEST,PICK UP 59 JOINTS DP TAG @ 2745' / R/D SAME.
	21:30 - 22:30	1.00	PRPSPD	07	B	P		LEVEL DERRICK,ADD 1"SHIMS TO OFF DRILLER SIDE FRONT LEG
	22:30 - 23:00	0.50	PRPSPD	14	B	P		INSTALL ROTATING HEAD / BREAK CIRC/ SWIVEL PACKING LEAKING
	23:00 - 0:00	1.00	PRPSPD	07	C	P		CHANGE SWIVEL PACKING
6/15/2011	0:00 - 1:30	1.50	DRLPRO	02	F	P		DRILL FLOAT TRAC 2745/ 2857 BAFFLE @ 2782,SHOE @ 2825 OPEN HOLE TO 2857'
	1:30 - 6:00	4.50	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/2857 TO 3382' = 525 '@116.6 FPH / / WOB 15K-18K / TOP DRIVE RPM 40-60 / PUMP 12 SPM = 550 GPM / PUMP PRESSURE ON/OFF BOTTOM 1575/1350 PSI / MUD MOTOR RPM 115 / PU/SO/ROT WT 114/98/9104 TORQUE ON/OFF BOTTOM 6K/3K / SLIDE 80' IN 30 MIN 15% OF FOOTAGE DRILLED 15% OF HRS DRILLED H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG
	6:00 - 15:00	9.00	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/3382 TO 4689' = 1307 '@145.2 FPH / / WOB 15K-18K / TOP DRIVE RPM 40-60 / PUMP SPM =120= 550 GPM / PUMP PRESSURE ON/OFF BOTTOM 1950/1610 PSI / MUD MOTOR RPM 115 / PU/SO/ROT 146/114/126 TORQUE ON/OFF BOTTOM 9K/5K / SLIDE 66' IN 60 MIN 5% OF FOOTAGE DRILLED 10.5% OF HRS DRILLED H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:30 - 0:00	8.50	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/4689 TO 5824' = 1135 '@133.5 FPH / / WOB 16K-24K / TOP DRIVE RPM 40-60 / PUMP SPM =120= 550 GPM / PUMP PRESSURE ON/OFF BOTTOM 2060/1725 PSI / MUD MOTOR RPM 115 / PU/SO/ROT 163/130/ 143 TORQUE ON/OFF BOTTOM 9K/8K / SLIDE 40' IN 30 MIN 3% OF FOOTAGE DRILLED 10.6% OF HRS DRILLED H2O + POLYMER W/ WEIGHTED SWEEPS +/-2.0 PPG

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011	
Project: UTAH-UINTAH	Site: NBU 921-20D PAD		Rig Name No: H&P 298/298, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/9/2011		End Date: 6/24/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/16/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/5824 TO 6500 = 675' @112.6 FPH / / WOB 16K-24K / TOP DRIVE RPM 40-70 / PUMP SPM =122= 550 GPM / PUMP PRESSURE ON/OFF BOTTOM 2090/1860 PSI / MUD MOTOR RPM 115 / PU/SO/ROT 184/136/ 156 TORQUE ON/OFF BOTTOM 9K/8K / SLIDE 40' IN 30 MIN 3% OF FOOTAGE DRILLED 10.6% OF HRS DRILLED / WT 8.4 VIS 26 / H2O + POLYMER W/ WEIGHTED SWEEPS +/-2.0 PPG
	6:00 - 15:00	9.00	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/6500 TO 7244 = 744' @82.6 FPH / / WOB 16K-24K / TOP DRIVE RPM 40-70 / PUMP SPM =122= 550 GPM / PUMP PRESSURE ON/OFF BOTTOM 2180/1920 PSI / MUD MOTOR RPM 115 / PU/SO/ROT 214/146/ 170 TORQUE ON/OFF BOTTOM 12K/8K / SLIDE 18' IN 45 MIN 2.4% OF FOOTAGE DRILLED 8.3% OF HRS DRILLED / WT 8.4 VIS 26 / H2O + POLYMER W/ WEIGHTED SWEEPS +/-2.0 PPG
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:30 - 0:00	8.50	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/7244 TO 7710 = 466 @54.8 FPH / / WOB 16K-24K / TOP DRIVE RPM 40-70 / PUMP SPM =120= 550 GPM / PUMP PRESSURE ON/OFF BOTTOM 2120/1920 PSI / MUD MOTOR RPM 115 / PU/SO/ROT 212/149/ 164 TORQUE ON/OFF BOTTOM 10K/9K / SLIDE 16' IN 25 MIN 3.4% OF FOOTAGE DRILLED 5% OF HRS DRILLED MW 9.4 VIS 31 / MUD UP @ 7300' / NO MUD LOSS / 5' FLARE
6/17/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL/ SURVEY F/7710 TO 8030 = 466 @53.4 FPH / WOB 16K-24K / TOP DRIVE RPM 40-70 / PUMP SPM =120= 550 GPM / PUMP PRESSURE ON/OFF BOTTOM 2405/2220 PSI / MUD MOTOR RPM 115 / PU/SO/ROT 224/150 174 TORQUE ON/OFF BOTTOM 10K/9K / MW 9.4 VIS 31 / MUD UP @ 7300' / NO MUD LOSS /
	6:00 - 14:00	8.00	DRLPRO	02	D	P		DRILL/ SURVEY F/8030 TO 8375 =345 @43.1 FPH / WOB 16K-24K / TOP DRIVE RPM 40-70 / PUMP SPM =110= 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2320/2060 PSI / MUD MOTOR RPM 104/ PU/SO/ROT 220/158 184TORQUE ON/OFF BOTTOM 9K/8K / MW10.3 VIS 34 / BYPASS SHAKERS @ 8075' / MUD LOSS 80 BBLS SEEPAGE TO HOLE / LCM 3%
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DRILL/ SURVEY F/8375 TO 8900= 525'@ 55.2 FPH / WOB 16K-24K / TOP DRIVE RPM 40-70 / PUMP SPM =110= 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2520/2400 PSI / MUD MOTOR RPM 104 / PU/SO/ROT 223/160 185 TORQUE ON/OFF BOTTOM 12K/9K SLIDE 20' IN 40 MIN 4% OF FOOTAGE DRILLED 7% OF HRS DRILLED / MW 11.4VIS 37 LCM 10%/ MUD LOSS 30 BBLS / GAS 7035 UNITS 15' FLARE@ 8800'

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011	
Project: UTAH-UINTAH	Site: NBU 921-20D PAD		Rig Name No: H&P 298/298, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/9/2011		End Date: 6/24/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/18/2011	0:00 - 6:00	6.00	DRLPRO	02	C	P		DRILL/ SURVEY F/8900 TO 9130= 230"@ 38.3 FPH / WOB 16K-24K / TOP DRIVE RPM 40-70 / PUMP SPM =110= 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2800/2550 PSI / MUD MOTOR RPM 104 / PU/SO/ROT 227/161 /188/TORQUE ON/OFF BOTTOM 12K/9K SLIDE 34' IN 110 MIN 414% OF FOOTAGE DRILLED 36% OF HRS DRILLED / MW 11.8 VIS 40 LCM 10% /40 BBL MUD LOSS
	6:00 - 15:00	9.00	DRLPRO	02	D	P		DRILL/ SURVEY F/ 9130 TO 9503= 373'@ 41.4 FPH / WOB 16K-24K / TOP DRIVE RPM 40-70 / PUMP SPM =110= 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500/2240 PSI / MUD MOTOR RPM 95/ PU/SO/ROT 235/166 /197/TORQUE ON/OFF BOTTOM 10K/8K / MW 12.1 VIS 42 LCM 15% /MUD LOSS 60 BBLS
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE BOP DRILL
	15:30 - 21:00	5.50	DRLPRO	02	D	P		DRILL/ SURVEY F/ 9503 TO 9646= '143'@ 26.0 FPH / WOB 16K-24K / TOP DRIVE RPM 40-70 / PUMP SPM =110= 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2800/2510 PSI / MUD MOTOR RPM 95/ PU/SO/ROT 235/166 197/TORQUE ON/OFF BOTTOM 10K/10K / MW 12.2 VIS 42 LCM 15% / NOMUD LOSS
	21:00 - 22:00	1.00	DRLPRO	05	C	P		CCH FOR / BIT TRIP
	22:00 - 0:00	2.00	DRLPRO	06	A	P		TRIP:BACK REAM OUT 5 STDS,PUMP SLUG TOH,
6/19/2011	0:00 - 4:00	4.00	DRLPRO	06	A	P		TOH, WORK THROUGH TIGHT HOLE @ 5029', ,FLOW CHECK,@ CSG SHOE,PULL ROTA RUBBER,,TOH PULL MWD TOOL,, ,FUNCT TEST BOP, BREAK BIT
	4:00 - 6:00	2.00	DRLPRO	06	A	P		X/O M MTRS & BIT,SCRIBE DIR TOOLS,INSTALL MWD SURFACE TEST TOOLS,TIH W/ BHA
	6:00 - 10:00	4.00	DRLPRO	06	A	P		TIH BREAK CIRC @ CSG SHOE,6500,WASH 95' TO BTM 10' FILL
	10:00 - 15:00	5.00	DRLPRO	02	D	P		DRILL/ SURVEY F/ 9646 TO 9885= 239'@ 47.8 FPH / WOB 16K-22K / TOP DRIVE RPM 40-70 / PUMP SPM =100= 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2420/2250 PSI / MUD MOTOR RPM 72/ PU/SO/ROT 235/166 197/TORQUE ON/OFF BOTTOM 12K/8K / MW 12.3 VIS 44 LCM 15% / 15' FLARE ON BTMS UP / NO MUD LOSS
	15:00 - 15:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	15:30 - 0:00	8.50	DRLPRO	02	D	P		DRILL/ SURVEY F/ 9885 TO 10,265=380'@ 44.7 FPH / WOB 16K-22K / TOP DRIVE RPM 40-70 / PUMP SPM =100= 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500//2275 PSI / MUD MOTOR RPM 72/ PU/SO/ROT 256/182 201/TORQUE ON/OFF BOTTOM 12K/8K / MW 12.3 VIS 45 LCM 15% / NO MUD LOSS
6/20/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL/ SURVEY F/ 10,265 TO 10,500=235'@ 39.1 FPH / WOB 16K-23K / TOP DRIVE RPM 40-70 / PUMP SPM =100= 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500//2275 PSI / MUD MOTOR RPM 72/ PU/SO/ROT 235/166 197/TORQUE ON/OFF BOTTOM 12K/8K / MW 12.3 VIS 42 LCM 15% / NO MUD LOSS

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011
Project: UTAH-UINTAH	Site: NBU 921-20D PAD	Rig Name No: H&P 298/298, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/9/2011	End Date: 6/24/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:00 - 0:00	18.00	DRLPRO	02	D	P		DRILL/ SURVEY F/ 10,500' TO 10,855=355'@ 19.72 FPH / WOB 18K-23K / TOP DRIVE RPM 40-50 / PUMP SPM =100= 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2600//2400 PSI / MUD MOTOR RPM 72/ PU/SO/ROT 245/185 210/TORQUE ON/OFF BOTTOM 12K/8K / MW 12.4 VIS 43 LCM 15% / NO MUD LOSS
6/21/2011	0:00 - 15:30	15.50	DRLPRO	02	D	P		DRILL/ SURVEY F/ 10,855' TO 11,215 = 360'@ 23.22 FPH / WOB 18K-23K / TOP DRIVE RPM 40-50 / PUMP SPM =100= 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2680/2470 PSI / MUD MOTOR RPM 72/ PU/SO/ROT 265/175 215 / TORQUE ON/OFF BOTTOM 15K/12K / MW 12.5+ VIS 45 LCM 15% / NO MUD LOSS / MAX GAS 5,055 UNITS
	15:30 - 16:00	0.50	DRLPRO	07	A	P		SERVICE RIG @ 11,215'
	16:00 - 0:00	8.00	DRLPRO	02	D	P		DRILL/ SURVEY F/ 11,215' TO 11,415' =200' @ 25 FPH / WOB 18K-23K / TOP DRIVE RPM 40-50 / PUMP SPM =100= 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2680/2470 PSI / MUD MOTOR RPM 72/ PU/SO/ROT 275/180 220 / TORQUE ON/OFF BOTTOM 15K/12K / MW 12.5+ VIS 45 LCM 15% / NO MUD LOSS / MAX GAS 3355 UNITS
6/22/2011	0:00 - 3:30	3.50	DRLPRO	02	D	P		DRILL/ SURVEY F/ 11,415' TO 11,480' TD = 65' @ 18.57 FPH / WOB 18K-23K / TOP DRIVE RPM 40-50 / PUMP SPM =100= 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2680/2470 PSI / MUD MOTOR RPM 72/ PU/SO/ROT 275/180 220 / TORQUE ON/OFF BOTTOM 15K/12K / MW 12.5+ VIS 45 LCM 15% / NO MUD LOSS / MAX GAS 3355 UNITS
	3:30 - 5:00	1.50	DRLPRO	05	C	P		CIRC & COND MUD @ 11,480'
	5:00 - 9:30	4.50	DRLPRO	06	E	P		WIPER TRIP F/ 11,480' TO 2,825' W/ NO PROBLEMS / FLOW CHECK - OK
	9:30 - 10:00	0.50	DRLPRO	07	A	P		SERVICE RIG @ 2,825'
	10:00 - 14:00	4.00	DRLPRO	06	E	P		TIH F/ 2,825' TO 11,300' WASH LAST 180 ' TO BTM @ 11,480' / NO FILL / NO PROBLEMS
	14:00 - 17:00	3.00	DRLPRO	05	C	P		CIRC & COND MUD @ 11,480' MAX GAS 3,785 UNITS / 2/10'S MUD CUT W / 4' FLARE
	17:00 - 23:00	6.00	DRLPRO	06	A	P		TOOH TO RUN OPEN LOGS F/ 11,480' TO BIT / LD MTR & BIT
	23:00 - 0:00	1.00	DRLPRO	11	D	P		PJSM / RU HALLIBURTON LOGGING EQUIPMENT
6/23/2011	0:00 - 10:00	10.00	DRLPRO	11	D	P		RUN # 1 TRIPPLE COMBO W/ HALLIBURTON F/ 11,490' TO 200' 2ND RUN SONIC DIPOLE & FMI F/ 5,200' TO 2,832' RD LOGGING EQUIPMENT / LOGGERS DEPTH 11,494' DRILLERS DEPTH 11,480' (NOTE: WORK TRIPPLE COMBO THRU TIGHT HOLE @ 5,400')
	10:00 - 10:30	0.50	DRLPRO	14	B	P		PULL WEAR BUSHING & CHANGE BAILS
	10:30 - 11:30	1.00	DRLPRO	12	A	P		PJSM RU WEATHERFORD TRS CSG EQUIPMENT
	11:30 - 21:30	10.00	DRLPRO	12	C	P		RUN 279 JTS OF 4 1/2" 11.60 P -110 BTC CSG / SHOE @ 11,472' FLOAT COLLAR @ 11428' Mverde Marker @ 8,125' Wasatch Marker @ 5,102'
	21:30 - 23:00	1.50	COMP	05	A	P		CIRC & COND MUD W/ 70 SPM @ 750 PSI / MAX GAS ON BTMS UP

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011	
Project: UTAH-UINTAH	Site: NBU 921-20D PAD		Rig Name No: H&P 298/298, CAPSTAR 310/310
Event: DRILLING	Start Date: 5/9/2011		End Date: 6/24/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	23:00 - 0:00	1.00	COMP	12	E	P		PJSM/ RU BJ SERVICES / TEST LINES TO 5,000 PSI/ PUMP 40 BBL WATER / FOLLOWED W/ 700 SX LEAD CEMENT @ 12.5 ppg (PREM LITE II) 173.98 BBLS FRESH WATER / (10.44 gal/sx, 1.98 yield)
6/24/2011	0:00 - 4:00	4.00	COMP	12	E	P		CONT W/ CMT JOB PUMP 1340 SX TAIL @ 14.3 ppg (CLS G 50/50 POZ 188.7 BBLS H2O / (5.90 gal/sx, 1.31 yield) / DROP PLUG & DISPLACE W/ 177 BBLS H2O + ADDITIVES / PLUG DOWN @ 02:00 LIFT PRESSURE @ 3300 PSI BUMP PRESSURE @ 3900 PSI W/ 5 BBLCMT BACK TO PIT / FLOATS HELD W/ 2 BBLS H2O RETURNED TO INVENTORY / TOP OF TAIL CEMENT CALCULATED @ 4600' FULL RETURNS THROUGH OUT JOB, RD CMT EQUIP
	4:00 - 5:00	1.00	COMP	14	A	P		RAISE BOP/ SET SLIPS W/ 115K / CUT OF CSG
	5:00 - 6:00	1.00	COMP	14	A	P		ND BOP'S / CLEAN PITS / PREPARE TO SKID RELEASE RIG @ 06:00 6/24/11
	6:00 - 6:00	0.00	COMP					PRODUCTION: Rig Move/Skid start date/time:6/12/2011 0:00 Rig Move/Skid finish date/time:6/14/2011 2:00 Total MOVE hours:50.0 Prod Rig Spud date/time:6/15/2011 1:30 Rig Release date/time:6/24/2011 6:00 Total SPUD to RR hours:220.5 Planned depth MD11,460 Planned depth TVD11400 Actual MD:11,480 Actual TVD:11,419 Open Wells $: AFE $: Open wells $/ft: PRODUCTION HOLE: Prod. From depth:2825 Prod. To depth:11,480 Total PROD hours: 153 Log Depth:11,490 Production Casing size:4 1/2 # of casing joints ran:279 Casing set MD:11,472.0 # sx of cement:2,040 Cement blend (ppg:)12.5 / 14.3 Cement yield (ft3/sk):1.98 / 1.31 Est. TOC (Lead & Tail) or 2 Stage :0 / 4600 Describe cement issues:FULL RETURNS 5 BBL BACK TO PITS 2 BBL WATER TO INVENTORY / BUMP PLUG / FLOATS HELD Describe hole issues:NONE DIRECTIONAL INFO:DIRECTIONAL KOP:272 Max angle:13.86 Departure:599.00 Max dogleg MD:2.32 / 841

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-20D4BS RED	**Wellbore No.**	OH
Well Name	NBU 921-20D4BS	**Wellbore Name**	NBU 921-20D4BS
Report No.	1	**Report Date**	9/9/2011
Project	UTAH-UINTAH	**Site**	NBU 921-20D PAD
Rig Name/No.		**Event**	COMPLETION
Start Date	9/9/2011	**End Date**	9/22/2011
Spud Date	5/29/2011	**Active Datum**	RKB @4,819.01ft (above Mean Sea Level)
UWI	NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

1.3 General

Contractor	CASEDHOLE SOLUTIONS	**Job Method**	PERFORATE	**Supervisor**	DAVE DANIELS
Perforated Assembly	PRODUCTION CASING	**Conveyed Method**	WIRELINE		

1.4 Initial Conditions

Fluid Type		**Fluid Density**	
Surface Press		**Estimate Res Press**	
TVD Fluid Top		**Fluid Head**	
Hydrostatic Press		**Press Difference**	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	8,003.0 (ft)-11,219.0 (ft)	**Start Date/Time**	9/12/2011 12:00AM
No. of Intervals	39	**End Date/Time**	9/12/2011 12:00AM
Total Shots	236	**Net Perforation Interval**	70.00 (ft)
Avg Shot Density	3.37 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/12/2011 12:00AM	MESAVERDE/			8,003.0	8,005.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/12/2011 12:00AM	MESAVERDE/			8,029.0	8,031.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,093.0	8,095.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,127.0	8,129.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,259.0	8,260.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,339.0	8,340.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,356.0	8,358.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,496.0	8,498.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,506.0	8,507.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,575.0	8,576.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,632.0	8,633.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,658.0	8,659.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,677.0	8,678.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,706.0	8,707.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,740.0	8,741.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,789.0	8,791.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,832.0	8,834.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			8,910.0	8,912.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			9,178.0	9,181.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			9,304.0	9,306.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			9,522.0	9,524.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			9,566.0	9,568.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/12/2011 12:00AM	MESAVERDE/			9,640.0	9,642.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			9,721.0	9,723.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			10,011.0	10,013.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			10,048.0	10,050.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			10,239.0	10,242.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			10,912.0	10,913.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			10,932.0	10,934.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			10,954.0	10,955.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			10,990.0	10,992.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			11,006.0	11,008.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			11,070.0	11,071.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			11,080.0	11,083.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			11,101.0	11,103.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			11,128.0	11,129.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			11,181.0	11,184.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			11,207.0	11,209.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
9/12/2011 12:00AM	MESAVERDE/			11,216.0	11,219.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

3 Plots

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011
Project: UTAH-UINTAH	Site: NBU 921-20D PAD	Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 9/9/2011	End Date: 9/22/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/8/2011	6:45 - 7:00	0.25	COMP	48		P		HELD SAFETY MEETING HIGH PRESSURE
	7:00 - 11:00	4.00	COMP	33	C	P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 13 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 31 PSI. 1ST PSI TEST T/ 9000 PSI. HELD FOR 30 MIN LOST 288 PSI. 2ND PSI TEST T/ 9000 PSI. HELD FOR 30 MIN. LOST 250 PSI 3RD PSI TEST T/ 9000 PSI. HELD FOR 30 MIN. LOST 181 PSI 4TH PSI TEST T/ 9000 PSI. HELD FOR 30 MIN. LOST 219 PSI NOTE: NO COMMUNICATION WITH SURFACE BLEED OFF PSI. MOVE T/ NEXT WELL. SWIFWE
9/9/2011	7:00 - 10:30	3.50	COMP	31	A	P		RD ON COGE 10 MOVE IN WAIT ON W L TO RD & MOVE OUT
	10:30 - 12:30	2.00	COMP	31		P		RU RIG AND EQUIP RU FLOOR TONGS ETC
	12:30 - 20:30	8.00	COMP	31		P		PU BKR RETERVOMATIC PKR RIH W 135 JTS L-80M TBG TO 4299 SET PKR . FILL HOLE RU B & C QUICK TEST TEST DOWN TBG TO 5000 PSI 30 MIN LOST 188 PSI BLED WELL DOWN TIE INTO THE CSG PRESSURE TO 5000 PSI TEST FOR 30 MIN LOST 205 PSI BLED WELL OFF RIH TO 5000 SET PKR RU B & C QUICK TEST. TEST CSG TO 5000 PSI FOR 30 MIN LOST 130 PSI. BLED WELL DOWN TIED INTO TBG TEST TO 5000 PSI 30 MIN LOST 207 PSI BLED WELL DOWN RELEASED PKR SWIFN
9/10/2011	7:00 - 13:00	6.00	COMP	31		P		POOH WITH 158 JTS 2 3/8 L-80 ND BOPES NU FRAC VALVES RD RIG AND EQUIP MOVED OFF LOCATION

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011	
Project: UTAH-UINTAH	Site: NBU 921-20D PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 9/9/2011		End Date: 9/22/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/12/2011	7:00 - 18:00	11.00	COMP	36	B	P		RU CASED HOLE SOLUTIONS AND SUPERIOR TO FRAC AND PERF WELLS PERF STG 1)PU 4 1/2 8K HAL CIBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 11,329' P/U PERF AS PER PERF DESIGN. POOH. NOTE :CAST IRON BRIDGE PLUG: FRAC STG 1)WHP 400 PSI, BRK 4441 PSI @ 4.9 BPM. ISIP 3861 PSI, FG .78 CALC HOLES OPEN @ 50.0 BPM @ 8044 PSI = 75% HOLES OPEN. ISIP 4237 PSI, FG .82, NPI 376 PSI. MP 8493 PSI, MR 50.5 BPM, AP 7260 PSI, AR 50.1 BPM X-OVER FOR W L PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 11,159 ' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 2)WHP 1350 PSI, BRK 5389 PSI @ 4.7 BPM. ISIP 3856 PSI, FG .79 CALC HOLES OPEN @ 50.1 BPM @ 8023 PSI = 76% HOLES OPEN. ISIP 4073 PSI, FG .81, NPI 217 PSI. MP 8909 PSI, MR 50.4 BPM, AP 7996 PSI, AR 46.9 BPM X-OVER FOR W L NOTE :ONLY WENT TO 1.5 # SAND CONCENTRATION AFTER SWEEP PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 11,038' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 3)WHP 1474 PSI, BRK 5163 PSI @ 4.8 BPM. ISIP 3947 PSI, FG .80. CALC HOLES OPEN @ 50.1 BPM @ 7425 PSI = 77% HOLES OPEN. ISIP 3791 PSI, FG .78, NPI -156 PSI. MP 8611 PSI, MR 50.5 BPM, AP 7204 PSI, AR 49.7 BPM X-OVER FOR W L PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 10.262' P/U PERF AS PER PERF DESIGN. POOH. SWIFN
9/13/2011	6:45 - 7:00	0.25	COMP	48		P		SAFETY MEETING THUNDERSTORMS ,FRAC VALVES, PPE

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011	
Project: UTAH-UINTAH	Site: NBU 921-20D PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 9/9/2011		End Date: 9/22/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 18:00	11.00	COMP	36	B	P		FRAC STG 4)WHP 2086 PSI, BRK 3245 PSI @ 4.5 BPM. ISIP 2796 PSI, FG .71 CALC HOLES OPEN @ 40.5 BPM @ 5696 PSI = 83% HOLES OPEN. ISIP 3180 PSI, FG .75, NPI 384 PSI. MP 6473 PSI, MR 49.5 BPM, AP 6165 PSI, AR 46.4 BPM X-OVER FOR W L PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9753' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 5)WHP 802 PSI, BRK 4361 PSI @ 4.8 BPM. ISIP 3271 PSI, FG .78 CALC HOLES OPEN @ 42.5 BPM @ 6300 PSI = 73% HOLES OPEN. ISIP 3159 PSI, FG .77, NPI -112 PSI. MP 6494 PSI, MR 51.8 BPM, AP 5848 PSI, AR 48.0 BPM X-OVER FOR W L PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9336' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 6)WHP 1060 PSI, BRK 4316 PSI @ 4.8 BPM. ISIP 3500 PSI, FG .82 CALC HOLES OPEN @ 35.5 BPM @ 6349 PSI = 71% HOLES OPEN. ISIP 3070 PSI, FG .77, NPI -430 PSI. MP 6520 PSI, MR 50.1 BPM, AP 6259 PSI, AR 42.5 BPM X-OVER FOR W L PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8942' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 7)WHP 1331 PSI, BRK 4282 PSI @ 4.7 BPM. ISIP 2452 PSI, FG .72 CALC HOLES OPEN @ 45.5 BPM @ 6371 PSI = 91% HOLES OPEN. ISIP 2846 PSI, FG .76, NPI 394 PSI. MP 6580 PSI, MR 50.9 BPM, AP 5468 PSI, AR 49.5 BPM X-OVER FOR W L PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011	
Project: UTAH-UINTAH	Site: NBU 921-20D PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 9/9/2011		End Date: 9/22/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								CBP @ 8771' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 8)WHP 1530 PSI, BRK 3476 PSI @ 6.1 BPM. ISIP 2696 PSI, FG .75. CALC HOLES OPEN @ 39.5 BPM @ 6057 PSI = 61% HOLES OPEN. ISIP 2789 PSI, FG .76, NPI 113 PSI. MP 6453 PSI, MR 51.0 BPM, AP 5575 PSI, AR 49.4 BPM X-OVER FOR W L PERF STG 9)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8537' P/U PERF AS PER PERF DESIGN. POOH. SWIFN
9/14/2011	6:45 - 7:00	0.25	COMP	48	B	P		HELD SAFETY MEETING RD & MOVING, CRANES
	7:00 - 12:00	5.00	COMP	36	B	P		FRAC STG 9)WHP 1749 PSI, BRK 2475 PSI @ 4.0 BPM. ISIP 1984 PSI, FG .68. CALC HOLES OPEN @ 50.1 BPM @ 6042 PSI = 74% HOLES OPEN. ISIP 2766 PSI, FG .77, NPI 782 PSI. MP 6454 PSI, MR 51.0 BPM, AP 5080 PSI, AR 50.3 BPM X-OVER FOR W L PERF STG 10)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8159' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 10)WHP 1574 PSI, BRK 4689 PSI @ 4.8 BPM. ISIP 2359 PSI, FG .73 CALC HOLES OPEN @ 37.3 BPM @ 6362 PSI = 60% HOLES OPEN. ISIP 2738 PSI, FG .78 NPI 379 PSI. MP 6562 PSI, MR 51.7 BPM, AP 5845 PSI, AR 46.9 BPM X-OVER FOR W L PU 4 1/2 CBP RIH SET @ 7953 POOH SWI RD CASED HOLE & SUPERIOR MOVED OFF LOCATION TOTAL SAND = 487,431 # TOTAL CLFL = 19,678 BBLS
9/20/2011	12:00 - 14:30	2.50	COMP	30	A	P		MOVE OVER FROM 921-20B3CS. RUSU. ND WH. NU 4" 10K BOP. RU FLOOR.
	14:30 - 18:00	3.50	COMP	31	I	P		MU WFORD 4-1/2" HD PKR, 1.87" XN AND RIH AS MEAS AND PU 2-3/8" L-80 TBG. RAN 181-JTS. EOT AT 5721'. SDFN

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011	
Project: UTAH-UINTAH	Site: NBU 921-20D PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 9/9/2011		End Date: 9/22/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/21/2011	7:00 - 7:15	0.25	COMP	48		P		JSA- PU TBG. PRES TESTING.
	7:15 - 8:00	0.75	COMP	31	I	P		SITP 0, SICP 0, SURFACE CSG OPEN. CONT RIH W/ WFORD 4-1/2" PKR AS MEAS AND PU TBG. HAVE 251-JTS IN, EOT 7949'.
	8:00 - 9:30	1.50	COMP	31	H	P		ROLL HOLE W/ 120 BBLS TMAC AT 2 BPM. FILL SURFACE CSG AND LEAVE OPEN. (PRES TEST B&C UNIT TO 5000#. LOST 55 PSI IN 15 MIN, REPLACE NEEDLE VALVE AND RETEST. LOST 28 PSI IN 15 MIN. GOOD)
	9:30 - 13:30	4.00	COMP	33	D	P		SET PKR AT 7936'. RU B&C. TEST DOWN TBG TO 5254#. LOST 46# IN 30 MIN TO 5208#. CSG-START TO PRES UP AND PIPE RAMS LEAKING, X-OUT PIPE RAMS. TEST DOWN CSG TO 5105#. LOST 137# IN 30 MIN TO 4968#. SURFACE AT 0#. RETEST DOWN CSG TO 5101#. LOST 105# IN 30 MIN TO 4996#. SURFACE AT 0#. RETEST DOWN CSG TO 5251#. LOST 98# IN 30 MIN TO 5153#. SURFACE 0#. RETEST DOWN CSG TO 5358#. LOST 98# IN 30 MIN TO 5260#. SURFACE 0#. CONFER W/ JEFF SAMUELS. BLEED OFF PRESSURE.
	13:30 - 15:00	1.50	COMP	31	I	P		RELEASE PKR FROM 7936'. POOH W/ 251-JTS TBG. LD PKR.
	15:00 - 17:30	2.50	COMP	31	I	P		MU 3-7/8" BIT, POBS AND 1.87" XN. RIH W/ 250-JTS TBG. RU PWR SWIVEL. SDFN
9/22/2011	7:00 - 7:15	0.25	COMP	48		P		JSA- D/O PLUGS. HIGH PRESSURE WELL.

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011	
Project: UTAH-UINTAH	Site: NBU 921-20D PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 9/9/2011		End Date: 9/22/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 16:00	8.75	COMP	44	C	P		SITP 0, SICP 0. SURFACE CSG OPEN. EST CIRC AND D/O PLUGS. #1- C/O 25' SAND TO CBP AT 7973'. D/O IN 7 MIN. 500# INC. FCP 0-200. RIH. #2- C/O 30' SAND TO CBP AT 8164'. D/O IN 8 MIN. 900# INC. FCP 200-400. RIH. #3- C/O 25' SAND TO CBP AT 8537'. D/O IN 8 MIN. 600# INC. FCP 400-500. RIH. #4- C/O 20' SAND TO CBP AT 8771'. D/O IN 6 MIN. 500# INC. FCP 500-700. RIH. #5- C/O 30' SAND TO CBP AT 8944'. D/O IN 8 MIN. 500# INC. FCP 500-700. RIH. #6- C/O 25' SAND TO CBP AT 9344'. D/O IN 4 MIN. 500# INC. FCP 600. RIH. #7- C/O 25' SAND TO CBP AT 9755'. D/O IN 8 MIN. 500# INC. FCP 600-800. RIH. #8- C/O 25' SAND TO CBP AT 10,276'. D/O IN 5 MIN. 400# INC. FCP 700-900. RIH. #9- C/O 27' SAND TO CBP AT 11,038'. D/O IN 10 MIN. 400# INC. FCP 800-1000. RIH. #10- C/O 35' SAND TO CBP AT 11,159'. D/O IN 15 MIN. 400# INC. FCP 700-900. RIH. PBTD- C/O 45' SAND TO 11,312" W/ 357-JTS IN (93' RATHOLE). CIRC CLEAN. RD PWR SWIVEL. POOH AS LD 9-JTS. PU 4" 10K HANGER. LUB IN AND LAND 348-JTS 2-3/8" L-80 TBG W/ EOT AT 11,026.05'. RD FLOOR. ND BOP. NU WH. POBS AT 3200#. SITP 1250, SICP 2750, SURFACE DRIBBLED MUDDY WTR AS D/O PLUGS 4-10 THEN QUIT. HOOK UP TO HAL 9000. TURN OVER TO FBC AND SALES. RDSU. SDFN TBG DETAIL KB 26.00 4" 10K HANGER .83 348-JTS 2-3/8" L-80 10,997.02 1.87" XN FE POBS 2.20 EOT 11,026.05 359-JTS DELIVERED, 11-JTS RETURNED. TWTR 19,678, TWR 3600, LTR 16,078.
9/23/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3800#, TP 2550#, 20/64" CK, 50 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 4510 BBLS LEFT TO RECOVER: 15168
9/24/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3950#, TP 2550#, 20/64" CK, 45 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 5630 BBLS LEFT TO RECOVER: 14048
9/25/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3800#, TP 2550#, 20/64" CK, 35 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 6590 BBLS LEFT TO RECOVER: 13088

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud Date: 5/29/2011	
Project: UTAH-UINTAH	Site: NBU 921-20D PAD		Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 9/9/2011		End Date: 9/22/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/26/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3600#, TP 2525#, 20/64" CK, 35 BWPH, light SAND, - GAS TTL BBLS RECOVERED: 7430 BBLS LEFT TO RECOVER: 12248
9/27/2011	7:00 -			33	A			7 AM FLBK REPORT: CP 3475#, TP 2450#, 20/64" CK, 28 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 8134 BBLS LEFT TO RECOVER: 11544

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-20D PAD
Well: NBU 921-20D4BS
Wellbore: NBU 921-20D4BS
Section:
SHL: P_NBU 921-20D4BS
Design: NBU 921-20D4BS (wp01) H&P 298
Latitude: 40.026229
Longitude: -109.579865
GL: 4793.00
KB: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
5034.00	5095.12	Top Wasatch (top of cylinder)
8088.00	8149.14	Top Mesaverde
9084.00	9145.15	MVU21
9591.00	9652.15	MVL1

Weatherford®

Azimuths to True North
Magnetic North: 11.37°

Magnetic Field
Strength: 52575.6snT
Dip Angle: 65.94°
Date: 4/20/2009
Model: IGRF200510

WELL DETAILS: NBU 921-20D4BS

+N/-S	+E/-W	Northing	Ground Level: Easting	4793.00 Latitude	Longitude	Slot
0.00	0.00	14538764.47	2037992.18	40.026229	-109.579865	

CASING DETAILS

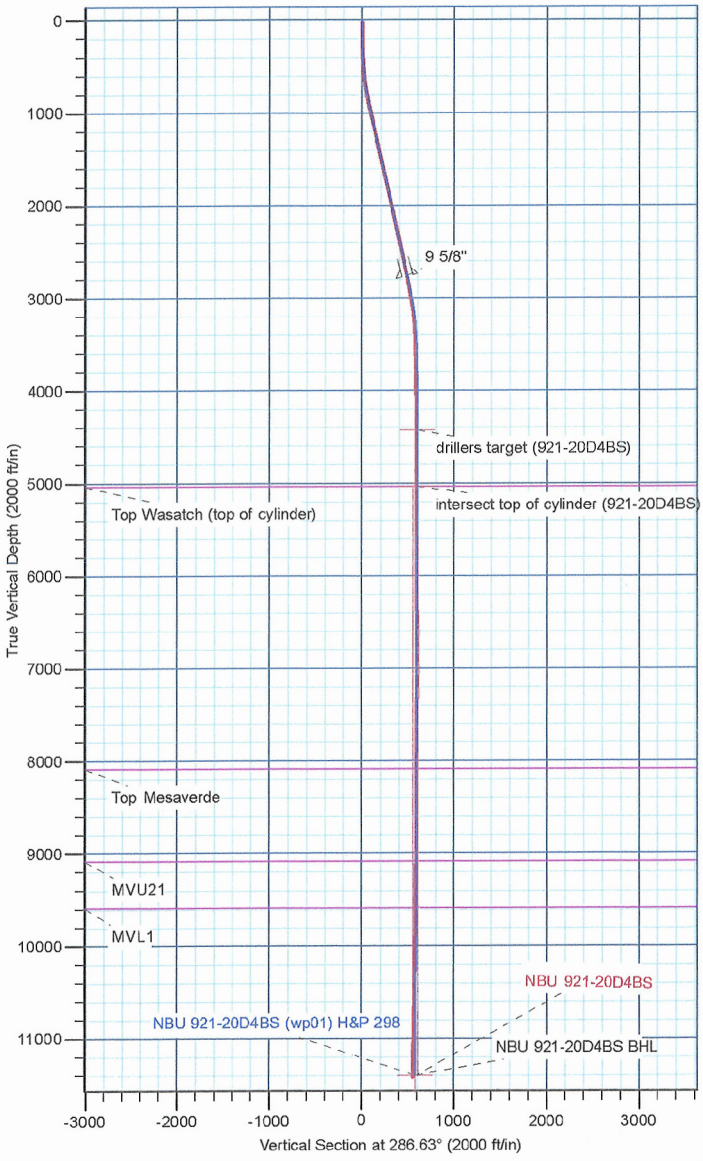
TVD	MD	Name	Size
2758.64	2810.33	9 5/8"	9-5/8

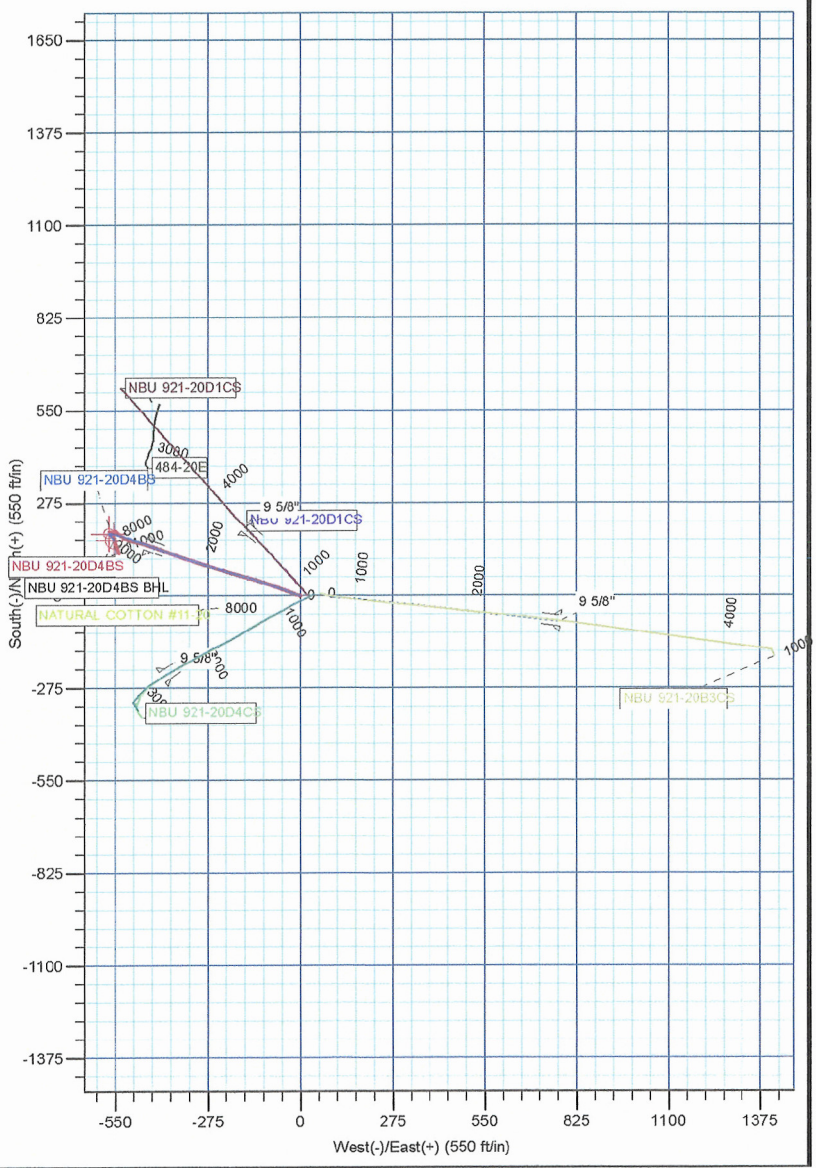
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
drillers target (921-20D4BS)	4422.00	185.72	-569.68	14538941.08	2037419.61	40.026739	-109.581900	Circle (Radius: 15.00)
intersect top of cylinder (921-20D4BS)	5034.00	184.06	-568.43	14538939.44	2037420.89	40.026734	-109.581895	Point
NBU 921-20D4BS BHL	11400.00	165.72	-554.68	14538921.32	2037434.93	40.026684	-109.581846	Circle (Radius: 25.00)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
2800.00	13.01	287.97	2748.58	151.43	-457.20	0.00	0.00	481.42
2959.00	13.01	287.97	2903.50	162.47	-491.25	0.00	0.00	517.20
3582.44	0.55	277.54	3521.36	184.60	-561.25	2.00	-179.54	590.61
4451.66	0.55	277.54	4390.54	185.70	-569.53	0.00	0.00	598.85
4483.12	0.00	0.00	4422.00	185.72	-569.68	1.75	180.00	599.00
4551.89	0.21	143.13	4490.77	185.62	-569.61	0.30	143.13	598.90
11461.17	0.21	143.13	11400.00	165.72	-554.68	0.00	0.00	578.91





US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_NBU 921-20D PAD
NBU 921-20D4BS

NBU 921-20D4BS

Design: NBU 921-20D4BS

Standard Survey Report

12 July, 2011

Weatherford®

APC
Survey Report

Weatherford

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20D4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Site:	UINTAH_NBU 921-20D PAD	**MD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Well:	NBU 921-20D4BS	**North Reference:**	True
Wellbore:	NBU 921-20D4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20D4BS	**Database:**	edm5000p

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Fee	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site UINTAH_NBU 921-20D PAD

Site Position:		**Northing:**	14,538,764.47 ft	**Latitude:**	40.026229
From:	Lat/Long	**Easting:**	2,037,992.18 ft	**Longitude:**	-109.579865
Position Uncertainty:	0.00 ft	**Slot Radius:**	0 "	**Grid Convergence:**	0.91 °

Well NBU 921-20D4BS

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,538,764.47 ft	**Latitude:**	40.026229
	+E/-W	0.00 ft	**Easting:**	2,037,992.18 ft	**Longitude:**	-109.579865
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,793.00 ft

Wellbore NBU 921-20D4BS

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	4/20/2009	11.37	65.94	52,576

Design NBU 921-20D4BS

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	17.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	17.00	0.00	0.00	286.63

Survey Program **Date** 7/12/2011

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
198.00	2,800.00	Survey #1 (NBU 921-20D4BS)	MWD	MWD - Standard
2,844.00	11,480.00	Survey #2 (NBU 921-20D4BS)	MWD	MWD - Standard

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Vertical Section (ft)**	**Dogleg Rate (°/100ft)**	**Build Rate (°/100ft)**	**Turn Rate (°/100ft)**
17.00	0.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00
198.00	0.09	183.65	198.00	-0.14	-0.01	-0.03	0.05	0.05	0.00
289.00	0.62	263.45	289.00	-0.27	-0.50	0.40	0.67	0.58	87.69
382.00	1.67	288.50	381.98	0.10	-2.29	2.22	1.22	1.13	26.94
477.00	3.08	288.68	476.89	1.36	-6.02	6.16	1.48	1.48	0.19
572.00	5.19	291.40	571.64	3.75	-12.44	12.99	2.23	2.22	2.86
668.00	6.95	291.93	667.10	7.50	-21.87	23.10	1.83	1.83	0.55
763.00	8.88	290.96	761.19	12.27	-34.05	36.14	2.04	2.03	-1.02
858.00	11.08	289.82	854.75	17.99	-49.49	52.56	2.32	2.32	-1.20
953.00	12.40	289.73	947.76	24.53	-67.68	71.86	1.39	1.39	-0.09

Weatherford

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20D4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Site:	UINTAH_NBU 921-20D PAD	**MD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Well:	NBU 921-20D4BS	**North Reference:**	True
Wellbore:	NBU 921-20D4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20D4BS	**Database:**	edm5000p

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,047.00	13.10	287.80	1,039.44	31.19	-87.32	92.59	0.87	0.74	-2.05
1,143.00	13.54	289.20	1,132.86	38.21	-108.29	114.70	0.57	0.46	1.46
1,238.00	13.63	286.83	1,225.20	45.11	-129.51	137.00	0.59	0.09	-2.49
1,333.00	13.63	286.13	1,317.53	51.46	-150.97	159.39	0.17	0.00	-0.74
1,429.00	12.49	285.34	1,411.04	57.35	-171.85	181.08	1.20	-1.19	-0.82
1,524.00	11.96	283.76	1,503.89	62.41	-191.32	201.18	0.66	-0.56	-1.66
1,620.00	11.96	285.95	1,597.80	67.51	-210.54	221.06	0.47	0.00	2.28
1,714.00	12.40	289.47	1,689.69	73.55	-229.43	240.88	0.92	0.47	3.74
1,809.00	13.01	288.77	1,782.36	80.39	-249.17	261.75	0.66	0.64	-0.74
1,903.00	13.89	287.45	1,873.78	87.18	-269.95	283.61	0.99	0.94	-1.40
1,998.00	13.63	286.39	1,966.06	93.76	-291.57	306.20	0.38	-0.27	-1.12
2,093.00	13.54	286.13	2,058.40	100.00	-312.99	328.52	0.11	-0.09	-0.27
2,189.00	13.45	289.03	2,151.75	106.77	-334.34	350.91	0.71	-0.09	3.02
2,284.00	12.40	289.20	2,244.34	113.72	-354.41	372.14	1.11	-1.11	0.18
2,379.00	11.78	290.61	2,337.23	120.49	-373.12	392.00	0.72	-0.65	1.48
2,472.00	11.78	291.49	2,428.27	127.31	-390.84	410.93	0.19	0.00	0.95
2,567.00	12.40	291.40	2,521.17	134.58	-409.36	430.76	0.65	0.65	-0.09
2,662.00	12.31	288.94	2,613.97	141.59	-428.44	451.04	0.56	-0.09	-2.59
2,758.00	12.93	289.12	2,707.65	148.43	-448.27	472.00	0.65	0.65	0.19
2,800.00	13.01	287.97	2,748.58	151.43	-457.20	481.42	0.64	0.19	-2.74
2,844.00	12.19	286.54	2,791.52	154.28	-466.37	491.02	1.99	-1.86	-3.25
2,939.00	11.13	283.32	2,884.56	159.25	-484.91	510.20	1.31	-1.12	-3.39
3,033.00	10.00	285.64	2,976.96	163.54	-501.59	527.42	1.28	-1.20	2.47
3,128.00	9.25	291.39	3,070.63	168.55	-516.65	543.28	1.28	-0.79	6.05
3,222.00	6.00	295.77	3,163.78	173.44	-528.11	555.66	3.51	-3.46	4.66
3,317.00	5.38	305.89	3,258.32	178.21	-536.19	564.76	1.24	-0.65	10.65
3,411.00	4.38	332.89	3,351.99	183.99	-541.40	571.41	2.63	-1.06	28.72
3,505.00	1.94	318.14	3,445.84	188.37	-544.09	575.25	2.71	-2.60	-15.69
3,600.00	1.71	308.69	3,540.79	190.45	-546.27	577.93	0.40	-0.24	-9.95
3,695.00	1.19	295.27	3,635.76	191.76	-548.27	580.22	0.65	-0.55	-14.13
3,789.00	1.06	254.39	3,729.74	191.94	-549.99	581.92	0.85	-0.14	-43.49
3,883.00	1.19	242.39	3,823.72	191.26	-551.69	583.36	0.29	0.14	-12.77
3,978.00	0.25	291.14	3,918.72	190.88	-552.76	584.27	1.10	-0.99	51.32
4,072.00	0.19	248.89	4,012.72	190.89	-553.10	584.60	0.18	-0.06	-44.95
4,167.00	0.44	232.64	4,107.71	190.62	-553.53	584.94	0.28	0.26	-17.11
4,261.00	0.88	233.89	4,201.71	189.97	-554.40	585.59	0.47	0.47	1.33
4,356.00	1.25	238.24	4,296.69	189.00	-555.87	586.71	0.40	0.39	4.58
4,450.00	1.63	225.14	4,390.66	187.51	-557.69	588.03	0.53	0.40	-13.94
4,544.00	0.00	182.14	4,484.65	186.57	-558.64	588.67	1.73	-1.73	0.00
4,639.00	0.38	182.89	4,579.65	186.26	-558.66	588.60	0.40	0.40	0.00
4,733.00	0.38	177.64	4,673.65	185.63	-558.66	588.42	0.04	0.00	-5.59
4,828.00	0.50	189.52	4,768.64	184.91	-558.72	588.27	0.16	0.13	12.51
4,923.00	0.88	185.02	4,863.64	183.77	-558.85	588.07	0.40	0.40	-4.74

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20D4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Site:	UINTAH_NBU 921-20D PAD	**MD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Well:	NBU 921-20D4BS	**North Reference:**	True
Wellbore:	NBU 921-20D4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20D4BS	**Database:**	edm5000p

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,017.00	1.00	187.64	4,957.62	182.24	-559.02	587.80	0.14	0.13	2.79
5,111.00	0.56	286.02	5,051.62	181.56	-559.57	588.13	1.29	-0.47	104.66
5,206.00	0.69	255.64	5,146.61	181.54	-560.57	589.08	0.37	0.14	-31.98
5,300.00	0.75	225.77	5,240.61	180.97	-561.56	589.87	0.40	0.06	-31.78
5,394.00	0.94	216.39	5,334.60	179.92	-562.46	590.43	0.25	0.20	-9.98
5,489.00	1.25	52.77	5,429.59	179.92	-562.10	590.08	2.28	0.33	-172.23
5,583.00	1.13	62.27	5,523.57	180.97	-560.46	588.81	0.25	-0.13	10.11
5,677.00	0.88	75.27	5,617.55	181.59	-558.94	587.53	0.36	-0.27	13.83
5,772.00	0.69	78.52	5,712.55	181.89	-557.68	586.40	0.21	-0.20	3.42
5,866.00	0.69	93.64	5,806.54	181.96	-556.56	585.35	0.19	0.00	16.09
5,961.00	0.63	92.27	5,901.53	181.91	-555.46	584.29	0.07	-0.06	-1.44
6,055.00	0.88	97.89	5,995.52	181.79	-554.23	583.08	0.28	0.27	5.98
6,149.00	0.75	316.14	6,089.52	182.13	-553.94	582.90	1.64	-0.14	-150.80
6,244.00	1.81	310.52	6,184.50	183.56	-555.51	584.81	1.12	1.12	-5.92
6,338.00	1.81	312.27	6,278.45	185.52	-557.74	587.51	0.06	0.00	1.86
6,433.00	1.56	306.77	6,373.41	187.30	-559.89	590.07	0.31	-0.26	-5.79
6,527.00	1.38	310.02	6,467.38	188.80	-561.78	592.31	0.21	-0.19	3.46
6,622.00	1.16	296.75	6,562.35	189.96	-563.51	594.31	0.39	-0.23	-13.97
6,716.00	1.13	282.52	6,656.33	190.59	-565.27	596.17	0.30	-0.03	-15.14
6,811.00	0.94	269.89	6,751.32	190.79	-566.96	597.85	0.31	-0.20	-13.29
6,905.00	0.75	261.89	6,845.31	190.71	-568.34	599.15	0.24	-0.20	-8.51
7,000.00	1.13	97.14	6,940.30	190.50	-568.03	598.79	1.96	0.40	-173.42
7,094.00	1.13	109.39	7,034.29	190.08	-566.23	596.95	0.26	0.00	13.03
7,189.00	1.06	114.39	7,129.27	189.41	-564.55	595.14	0.12	-0.07	5.26
7,283.00	1.06	103.64	7,223.25	188.84	-562.91	593.41	0.21	0.00	-11.44
7,378.00	1.19	121.02	7,318.23	188.13	-561.21	591.58	0.38	0.14	18.29
7,472.00	1.19	118.02	7,412.21	187.16	-559.52	589.68	0.07	0.00	-3.19
7,567.00	0.25	126.14	7,507.21	186.58	-558.48	588.52	0.99	-0.99	8.55
7,662.00	0.44	130.52	7,602.20	186.22	-558.03	587.99	0.20	0.20	4.61
7,756.00	0.38	157.52	7,696.20	185.70	-557.64	587.46	0.21	-0.06	28.72
7,851.00	0.31	142.89	7,791.20	185.20	-557.36	587.05	0.12	-0.07	-15.40
7,946.00	0.50	155.27	7,886.20	184.62	-557.04	586.57	0.22	0.20	13.03
8,041.00	0.50	151.27	7,981.19	183.88	-556.66	586.00	0.04	0.00	-4.21
8,135.00	0.81	162.27	8,075.19	182.89	-556.26	585.34	0.35	0.33	11.70
8,230.00	0.56	329.14	8,170.19	182.65	-556.30	585.30	1.43	-0.26	175.65
8,325.00	0.58	340.08	8,265.18	183.50	-556.70	585.93	0.12	0.02	11.52
8,420.00	0.25	319.52	8,360.18	184.11	-557.00	586.39	0.38	-0.35	-21.64
8,514.00	0.19	305.01	8,454.18	184.35	-557.26	586.71	0.09	-0.06	-15.44
8,609.00	0.13	109.77	8,549.18	184.41	-557.29	586.75	0.33	-0.06	173.43
8,703.00	0.31	184.14	8,643.18	184.12	-557.20	586.59	0.32	0.19	79.12
8,797.00	0.69	168.64	8,737.17	183.31	-557.11	586.27	0.43	0.40	-16.49
8,891.00	0.81	224.89	8,831.17	182.28	-557.47	586.32	0.76	0.13	59.84
8,986.00	0.63	215.14	8,926.16	181.38	-558.24	586.80	0.23	-0.19	-10.26

APC
Survey Report

Weatherford

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20D4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Site:	UINTAH_NBU 921-20D PAD	**MD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Well:	NBU 921-20D4BS	**North Reference:**	True
Wellbore:	NBU 921-20D4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20D4BS	**Database:**	edm5000p

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,080.00	0.06	220.38	9,020.16	180.92	-558.57	586.99	0.61	-0.61	5.57
9,175.00	0.06	253.39	9,115.16	180.87	-558.65	587.05	0.04	0.00	34.75
9,269.00	0.21	114.08	9,209.16	180.78	-558.54	586.92	0.27	0.16	-148.20
9,363.00	0.50	97.89	9,303.15	180.66	-557.98	586.34	0.32	0.31	-17.22
9,458.00	0.50	110.77	9,398.15	180.45	-557.18	585.52	0.12	0.00	13.56
9,552.00	0.56	130.64	9,492.15	180.01	-556.45	584.69	0.20	0.06	21.14
9,646.00	0.69	143.52	9,586.14	179.25	-555.76	583.82	0.20	0.14	13.70
9,741.00	0.69	123.64	9,681.13	178.48	-554.95	582.81	0.25	0.00	-20.93
9,835.00	0.88	157.39	9,775.13	177.50	-554.20	581.82	0.52	0.20	35.90
9,930.00	0.81	172.27	9,870.12	176.16	-553.83	581.08	0.24	-0.07	15.66
10,024.00	1.38	173.02	9,964.10	174.38	-553.60	580.35	0.61	0.61	0.80
10,119.00	1.38	171.77	10,059.07	172.11	-553.30	579.41	0.03	0.00	-1.32
10,213.00	1.44	178.14	10,153.04	169.81	-553.10	578.56	0.18	0.06	6.78
10,307.00	1.94	169.39	10,247.00	167.06	-552.77	577.46	0.60	0.53	-9.31
10,402.00	1.88	168.89	10,341.95	163.95	-552.17	576.00	0.07	-0.06	-0.53
10,497.00	2.06	160.02	10,436.89	160.82	-551.29	574.25	0.37	0.19	-9.34
10,591.00	2.13	166.39	10,530.83	157.53	-550.30	572.36	0.26	0.07	6.78
10,686.00	2.13	167.52	10,625.76	154.09	-549.50	570.62	0.04	0.00	1.19
10,780.00	2.00	157.77	10,719.70	150.87	-548.50	568.74	0.40	-0.14	-10.37
10,875.00	2.25	164.02	10,814.64	147.54	-547.36	566.69	0.36	0.26	6.58
10,970.00	2.06	156.02	10,909.57	144.19	-546.15	564.57	0.37	-0.20	-8.42
11,065.00	2.19	163.14	11,004.51	140.89	-544.93	562.46	0.31	0.14	7.49
11,159.00	2.25	159.14	11,098.44	137.45	-543.76	560.35	0.18	0.06	-4.26
11,254.00	2.38	166.64	11,193.36	133.79	-542.64	558.23	0.35	0.14	7.89
11,349.00	2.06	157.64	11,288.29	130.29	-541.53	556.17	0.50	-0.34	-9.47
11,430.00	2.06	157.64	11,369.23	127.60	-540.42	554.33	0.00	0.00	0.00
MWD SURVEY									
11,480.00	2.06	157.64	11,419.20	125.93	-539.74	553.20	0.00	0.00	0.00
LAST PROJECTION									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
11,430.00	11,369.23	127.60	-540.42	MWD SURVEY
11,480.00	11,419.20	125.93	-539.74	LAST PROJECTION

Checked By: _____ Approved By: _____ Date: _____

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_NBU 921-20D PAD
NBU 921-20D4BS

NBU 921-20D4BS

Design: NBU 921-20D4BS

Survey Report - Geographic

12 July, 2011

Weatherford®

APC

Survey Report - Geographic

Weatherford

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20D4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Site:	UINTAH_NBU 921-20D PAD	**MD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Well:	NBU 921-20D4BS	**North Reference:**	True
Wellbore:	NBU 921-20D4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20D4BS	**Database:**	edm5000p

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System:	Universal Transverse Mercator (US Survey Fee	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site UINTAH_NBU 921-20D PAD

Site Position:		**Northing:**	14,538,764.47 ft	**Latitude:**	40.026229
From:	Lat/Long	**Easting:**	2,037,992.18 ft	**Longitude:**	-109.579865
Position Uncertainty:	0.00 ft	**Slot Radius:**	0 "	**Grid Convergence:**	0.91 °

Well NBU 921-20D4BS

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,538,764.47 ft	**Latitude:**	40.026229
	+E/-W	0.00 ft	**Easting:**	2,037,992.18 ft	**Longitude:**	-109.579865
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,793.00 ft

Wellbore NBU 921-20D4BS

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF200510	4/20/2009	11.37	65.94	52,576

Design NBU 921-20D4BS

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	17.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	17.00	0.00	0.00	286.63

Survey Program **Date** 7/12/2011

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
198.00	2,800.00	Survey #1 (NBU 921-20D4BS)	MWD	MWD - Standard
2,844.00	11,480.00	Survey #2 (NBU 921-20D4BS)	MWD	MWD - Standard

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Map Northing (ft)**	**Map Easting (ft)**	**Latitude**	**Longitude**
17.00	0.00	0.00	17.00	0.00	0.00	14,538,764.47	2,037,992.18	40.026229	-109.579865
198.00	0.09	183.65	198.00	-0.14	-0.01	14,538,764.33	2,037,992.17	40.026229	-109.579865
289.00	0.62	263.45	289.00	-0.27	-0.50	14,538,764.19	2,037,991.68	40.026228	-109.579867
382.00	1.67	288.50	381.98	0.10	-2.29	14,538,764.54	2,037,989.89	40.026229	-109.579873
477.00	3.08	288.68	476.89	1.36	-6.02	14,538,765.73	2,037,986.14	40.026233	-109.579887
572.00	5.19	291.40	571.64	3.75	-12.44	14,538,768.02	2,037,979.68	40.026239	-109.579910
668.00	6.95	291.93	667.10	7.50	-21.87	14,538,771.62	2,037,970.19	40.026250	-109.579943
763.00	8.88	290.96	761.19	12.27	-34.05	14,538,776.20	2,037,957.94	40.026263	-109.579987
858.00	11.08	289.82	854.75	17.99	-49.49	14,538,781.67	2,037,942.41	40.026278	-109.580042
953.00	12.40	289.73	947.76	24.53	-67.68	14,538,787.92	2,037,924.12	40.026296	-109.580107
1,047.00	13.10	287.80	1,039.44	31.19	-87.32	14,538,794.26	2,037,904.37	40.026315	-109.580177

APC

Survey Report - Geographic

Weatherford

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20D4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Site:	UINTAH_NBU 921-20D PAD	**MD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Well:	NBU 921-20D4BS	**North Reference:**	True
Wellbore:	NBU 921-20D4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20D4BS	**Database:**	edm5000p

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
1,143.00	13.54	289.20	1,132.86	38.21	-108.29	14,538,800.95	2,037,883.29	40.026334	-109.580252
1,238.00	13.63	286.83	1,225.20	45.11	-129.51	14,538,807.51	2,037,861.97	40.026353	-109.580328
1,333.00	13.63	286.13	1,317.53	51.46	-150.97	14,538,813.52	2,037,840.40	40.026370	-109.580404
1,429.00	12.49	285.34	1,411.04	57.35	-171.85	14,538,819.07	2,037,819.43	40.026387	-109.580479
1,524.00	11.96	283.76	1,503.89	62.41	-191.32	14,538,823.82	2,037,799.89	40.026400	-109.580549
1,620.00	11.96	285.95	1,597.80	67.51	-210.54	14,538,828.61	2,037,780.58	40.026414	-109.580617
1,714.00	12.40	289.47	1,689.69	73.55	-229.43	14,538,834.35	2,037,761.61	40.026431	-109.580685
1,809.00	13.01	288.77	1,782.36	80.39	-249.17	14,538,840.88	2,037,741.76	40.026450	-109.580755
1,903.00	13.89	287.45	1,873.78	87.18	-269.95	14,538,847.33	2,037,720.87	40.026468	-109.580829
1,998.00	13.63	286.39	1,966.06	93.76	-291.57	14,538,853.57	2,037,699.16	40.026487	-109.580907
2,093.00	13.54	286.13	2,058.40	100.00	-312.99	14,538,859.47	2,037,677.64	40.026504	-109.580983
2,189.00	13.45	289.03	2,151.75	106.77	-334.34	14,538,865.89	2,037,656.18	40.026522	-109.581059
2,284.00	12.40	289.20	2,244.34	113.72	-354.41	14,538,872.53	2,037,636.00	40.026541	-109.581131
2,379.00	11.78	290.61	2,337.23	120.49	-373.12	14,538,879.00	2,037,617.18	40.026560	-109.581198
2,472.00	11.78	291.49	2,428.27	127.31	-390.84	14,538,885.53	2,037,599.35	40.026579	-109.581261
2,567.00	12.40	291.40	2,521.17	134.58	-409.36	14,538,892.51	2,037,580.72	40.026599	-109.581327
2,662.00	12.31	288.94	2,613.97	141.59	-428.44	14,538,899.22	2,037,561.54	40.026618	-109.581395
2,758.00	12.93	289.12	2,707.65	148.43	-448.27	14,538,905.74	2,037,541.60	40.026637	-109.581466
2,800.00	13.01	287.97	2,748.58	151.43	-457.20	14,538,908.59	2,037,532.62	40.026645	-109.581498
2,844.00	12.19	286.54	2,791.52	154.28	-466.37	14,538,911.30	2,037,523.41	40.026653	-109.581531
2,939.00	11.13	283.32	2,884.56	159.25	-484.91	14,538,915.97	2,037,504.80	40.026666	-109.581597
3,033.00	10.00	285.64	2,976.96	163.54	-501.59	14,538,919.99	2,037,488.04	40.026678	-109.581657
3,128.00	9.25	291.39	3,070.63	168.55	-516.65	14,538,924.76	2,037,472.91	40.026692	-109.581710
3,222.00	6.00	295.77	3,163.78	173.44	-528.11	14,538,929.47	2,037,461.37	40.026705	-109.581751
3,317.00	5.38	305.89	3,258.32	178.21	-536.19	14,538,934.11	2,037,453.22	40.026718	-109.581780
3,411.00	4.38	332.89	3,351.99	183.99	-541.40	14,538,939.81	2,037,447.92	40.026734	-109.581799
3,505.00	1.94	318.14	3,445.84	188.37	-544.09	14,538,944.14	2,037,445.15	40.026746	-109.581808
3,600.00	1.71	308.69	3,540.79	190.45	-546.27	14,538,946.19	2,037,442.94	40.026752	-109.581816
3,695.00	1.19	295.27	3,635.76	191.76	-548.27	14,538,947.47	2,037,440.92	40.026756	-109.581823
3,789.00	1.06	254.39	3,729.74	191.94	-549.99	14,538,947.62	2,037,439.20	40.026756	-109.581830
3,883.00	1.19	242.39	3,823.72	191.26	-551.69	14,538,946.91	2,037,437.51	40.026754	-109.581836
3,978.00	0.25	291.14	3,918.72	190.88	-552.76	14,538,946.51	2,037,436.44	40.026753	-109.581839
4,072.00	0.19	248.89	4,012.72	190.89	-553.10	14,538,946.52	2,037,436.11	40.026753	-109.581841
4,167.00	0.44	232.64	4,107.71	190.62	-553.53	14,538,946.24	2,037,435.67	40.026752	-109.581842
4,261.00	0.88	233.89	4,201.71	189.97	-554.40	14,538,945.58	2,037,434.82	40.026751	-109.581845
4,356.00	1.25	238.24	4,296.69	189.00	-555.87	14,538,944.58	2,037,433.36	40.026748	-109.581851
4,450.00	1.63	225.14	4,390.66	187.51	-557.69	14,538,943.07	2,037,431.56	40.026744	-109.581857
4,544.00	0.00	182.14	4,484.65	186.57	-558.64	14,538,942.11	2,037,430.63	40.026741	-109.581860
4,639.00	0.38	182.89	4,579.65	186.26	-558.66	14,538,941.80	2,037,430.62	40.026740	-109.581860
4,733.00	0.38	177.64	4,673.65	185.63	-558.66	14,538,941.17	2,037,430.63	40.026739	-109.581860
4,828.00	0.50	189.52	4,768.64	184.91	-558.72	14,538,940.45	2,037,430.58	40.026737	-109.581861
4,923.00	0.88	185.02	4,863.64	183.77	-558.85	14,538,939.31	2,037,430.47	40.026734	-109.581861
5,017.00	1.00	187.64	4,957.62	182.24	-559.02	14,538,937.78	2,037,430.32	40.026729	-109.581862
5,111.00	0.56	286.02	5,051.62	181.56	-559.57	14,538,937.08	2,037,429.78	40.026728	-109.581864
5,206.00	0.69	255.64	5,146.61	181.54	-560.57	14,538,937.05	2,037,428.78	40.026728	-109.581867
5,300.00	0.75	225.77	5,240.61	180.97	-561.56	14,538,936.47	2,037,427.80	40.026726	-109.581871
5,394.00	0.94	216.39	5,334.60	179.92	-562.46	14,538,935.40	2,037,426.92	40.026723	-109.581874
5,489.00	1.25	52.77	5,429.59	179.92	-562.10	14,538,935.41	2,037,427.28	40.026723	-109.581873
5,583.00	1.13	62.27	5,523.57	180.97	-560.46	14,538,936.49	2,037,428.90	40.026726	-109.581867
5,677.00	0.88	75.27	5,617.55	181.59	-558.94	14,538,937.12	2,037,430.41	40.026728	-109.581861
5,772.00	0.69	78.52	5,712.55	181.89	-557.68	14,538,937.44	2,037,431.67	40.026728	-109.581857
5,866.00	0.69	93.64	5,806.54	181.96	-556.56	14,538,937.54	2,037,432.79	40.026729	-109.581853
5,961.00	0.63	92.27	5,901.53	181.91	-555.46	14,538,937.50	2,037,433.89	40.026729	-109.581849
6,055.00	0.88	97.89	5,995.52	181.79	-554.23	14,538,937.40	2,037,435.12	40.026728	-109.581845
6,149.00	0.75	316.14	6,089.52	182.13	-553.94	14,538,937.75	2,037,435.40	40.026729	-109.581844

APC

Survey Report - Geographic

Weatherford

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20D4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Site:	UINTAH_NBU 921-20D PAD	**MD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Well:	NBU 921-20D4BS	**North Reference:**	True
Wellbore:	NBU 921-20D4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20D4BS	**Database:**	edm5000p

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
6,244.00	1.81	310.52	6,184.50	183.56	-555.51	14,538,939.15	2,037,433.81	40.026733	-109.581849
6,338.00	1.81	312.27	6,278.45	185.52	-557.74	14,538,941.07	2,037,431.55	40.026738	-109.581857
6,433.00	1.56	306.77	6,373.41	187.30	-559.89	14,538,942.82	2,037,429.38	40.026743	-109.581865
6,527.00	1.38	310.02	6,467.38	188.80	-561.78	14,538,944.29	2,037,427.46	40.026747	-109.581872
6,622.00	1.16	296.75	6,562.35	189.96	-563.51	14,538,945.43	2,037,425.71	40.026751	-109.581878
6,716.00	1.13	282.52	6,656.33	190.59	-565.27	14,538,946.03	2,037,423.94	40.026752	-109.581884
6,811.00	0.94	269.89	6,751.32	190.79	-566.96	14,538,946.20	2,037,422.25	40.026753	-109.581890
6,905.00	0.75	261.89	6,845.31	190.71	-568.34	14,538,946.09	2,037,420.87	40.026753	-109.581895
7,000.00	1.13	97.14	6,940.30	190.50	-568.03	14,538,945.89	2,037,421.18	40.026752	-109.581894
7,094.00	1.13	109.39	7,034.29	190.08	-566.23	14,538,945.50	2,037,422.99	40.026751	-109.581888
7,189.00	1.06	114.39	7,129.27	189.41	-564.55	14,538,944.85	2,037,424.68	40.026749	-109.581882
7,283.00	1.06	103.64	7,223.25	188.84	-562.91	14,538,944.31	2,037,426.33	40.026748	-109.581876
7,378.00	1.19	121.02	7,318.23	188.13	-561.21	14,538,943.62	2,037,428.04	40.026746	-109.581870
7,472.00	1.19	118.02	7,412.21	187.16	-559.52	14,538,942.69	2,037,429.75	40.026743	-109.581864
7,567.00	0.25	126.14	7,507.21	186.58	-558.48	14,538,942.12	2,037,430.80	40.026741	-109.581860
7,662.00	0.44	130.52	7,602.20	186.22	-558.03	14,538,941.77	2,037,431.25	40.026740	-109.581858
7,756.00	0.38	157.52	7,696.20	185.70	-557.64	14,538,941.25	2,037,431.65	40.026739	-109.581857
7,851.00	0.31	142.89	7,791.20	185.20	-557.36	14,538,940.76	2,037,431.93	40.026738	-109.581856
7,946.00	0.50	155.27	7,886.20	184.62	-557.04	14,538,940.19	2,037,432.27	40.026736	-109.581855
8,041.00	0.50	151.27	7,981.19	183.88	-556.66	14,538,939.45	2,037,432.65	40.026734	-109.581853
8,135.00	0.81	162.27	8,075.19	182.89	-556.26	14,538,938.47	2,037,433.07	40.026731	-109.581852
8,230.00	0.56	329.14	8,170.19	182.65	-556.30	14,538,938.22	2,037,433.04	40.026731	-109.581852
8,325.00	0.58	340.08	8,265.18	183.50	-556.70	14,538,939.07	2,037,432.62	40.026733	-109.581853
8,420.00	0.25	319.52	8,360.18	184.11	-557.00	14,538,939.67	2,037,432.32	40.026735	-109.581855
8,514.00	0.19	305.01	8,454.18	184.35	-557.26	14,538,939.91	2,037,432.05	40.026735	-109.581855
8,609.00	0.13	109.77	8,549.18	184.41	-557.29	14,538,939.97	2,037,432.02	40.026735	-109.581856
8,703.00	0.31	184.14	8,643.18	184.12	-557.20	14,538,939.68	2,037,432.11	40.026735	-109.581855
8,797.00	0.69	168.64	8,737.17	183.31	-557.11	14,538,938.87	2,037,432.22	40.026732	-109.581855
8,891.00	0.81	224.89	8,831.17	182.28	-557.47	14,538,937.84	2,037,431.87	40.026730	-109.581856
8,986.00	0.63	215.14	8,926.16	181.38	-558.24	14,538,936.93	2,037,431.11	40.026727	-109.581859
9,080.00	0.06	220.38	9,020.16	180.92	-558.57	14,538,936.46	2,037,430.79	40.026726	-109.581860
9,175.00	0.06	253.39	9,115.16	180.87	-558.65	14,538,936.41	2,037,430.71	40.026726	-109.581860
9,269.00	0.21	114.08	9,209.16	180.78	-558.54	14,538,936.32	2,037,430.83	40.026725	-109.581860
9,363.00	0.50	97.89	9,303.15	180.66	-557.98	14,538,936.21	2,037,431.39	40.026725	-109.581858
9,458.00	0.50	110.77	9,398.15	180.45	-557.18	14,538,936.02	2,037,432.19	40.026725	-109.581855
9,552.00	0.56	130.64	9,492.15	180.01	-556.45	14,538,935.58	2,037,432.93	40.026723	-109.581853
9,646.00	0.69	143.52	9,586.14	179.25	-555.76	14,538,934.84	2,037,433.63	40.026721	-109.581850
9,741.00	0.69	123.64	9,681.13	178.48	-554.95	14,538,934.08	2,037,434.46	40.026719	-109.581847
9,835.00	0.88	157.39	9,775.13	177.50	-554.20	14,538,933.11	2,037,435.22	40.026716	-109.581845
9,930.00	0.81	172.27	9,870.12	176.16	-553.83	14,538,931.78	2,037,435.61	40.026713	-109.581843
10,024.00	1.38	173.02	9,964.10	174.38	-553.60	14,538,930.00	2,037,435.87	40.026708	-109.581842
10,119.00	1.38	171.77	10,059.07	172.11	-553.30	14,538,927.73	2,037,436.21	40.026702	-109.581841
10,213.00	1.44	178.14	10,153.04	169.81	-553.10	14,538,925.44	2,037,436.44	40.026695	-109.581841
10,307.00	1.94	169.39	10,247.00	167.06	-552.77	14,538,922.70	2,037,436.82	40.026688	-109.581839
10,402.00	1.88	168.89	10,341.95	163.95	-552.17	14,538,919.60	2,037,437.47	40.026679	-109.581837
10,497.00	2.06	160.02	10,436.89	160.82	-551.29	14,538,916.48	2,037,438.40	40.026671	-109.581834
10,591.00	2.13	166.39	10,530.83	157.53	-550.30	14,538,913.21	2,037,439.44	40.026662	-109.581831
10,686.00	2.13	167.52	10,625.76	154.09	-549.50	14,538,909.78	2,037,440.29	40.026652	-109.581828
10,780.00	2.00	157.77	10,719.70	150.87	-548.50	14,538,906.58	2,037,441.34	40.026643	-109.581824
10,875.00	2.25	164.02	10,814.64	147.54	-547.36	14,538,903.27	2,037,442.53	40.026634	-109.581820
10,970.00	2.06	156.02	10,909.57	144.19	-546.15	14,538,899.93	2,037,443.79	40.026625	-109.581816
11,065.00	2.19	163.14	11,004.51	140.89	-544.93	14,538,896.66	2,037,445.07	40.026616	-109.581811
11,159.00	2.25	159.14	11,098.44	137.45	-543.76	14,538,893.23	2,037,446.30	40.026606	-109.581807
11,254.00	2.38	166.64	11,193.36	133.79	-542.64	14,538,889.59	2,037,447.48	40.026596	-109.581803
11,349.00	2.06	157.64	11,288.29	130.29	-541.53	14,538,886.11	2,037,448.64	40.026587	-109.581799

APC

Survey Report - Geographic

Weatherford

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-20D4BS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Site:	UINTAH_NBU 921-20D PAD	**MD Reference:**	26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Well:	NBU 921-20D4BS	**North Reference:**	True
Wellbore:	NBU 921-20D4BS	**Survey Calculation Method:**	Minimum Curvature
Design:	NBU 921-20D4BS	**Database:**	edm5000p

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
11,430.00	2.06	157.64	11,369.23	127.60	-540.42	14,538,883.43	2,037,449.79	40.026579	-109.581795
MWD SURVEY									
11,480.00	2.06	157.64	11,419.20	125.93	-539.74	14,538,881.78	2,037,450.50	40.026575	-109.581793
LAST PROJECTION									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
11,430.00	11,369.23	127.60	-540.42	MWD SURVEY
11,480.00	11,419.20	125.93	-539.74	LAST PROJECTION

Checked By: _____ Approved By: _____ Date: _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-20D4BS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047505970000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6100

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0963 FNL 1252 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 Township: 09.0S Range: 21.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☑ SUBSEQUENT REPORT Date of Work Completion: 12/20/2014	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☑ OTHER	OTHER: WELLBORE CLEANOUT

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

A WORKOVER/WELLBORE CLEANOUT HAS BEEN COMPLETED ON THE NBU 921-20D4BS, SEE THE ATTACHED OPERATIONS SUMMARY REPORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
January 14, 2015

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Doreen Green	435 781-9758	Regulatory Analyst II
SIGNATURE N/A		**DATE** 1/12/2015

RECEIVED: Jan. 12, 2015

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-20D4BS RED	Spud Conductor: 5/19/2011	Spud date: 5/29/2011	
Project: UTAH-UINTAH	Site: NBU 921-20D PAD		Rig name no.: GWS 1/1
Event: WELL WORK EXPENSE	Start date: 12/18/2014		End date: 12/20/2014
Active datum: RKB @4,819.00usft (above Mean Sea Level)	UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/963/W/0/1252/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD from (usft)	Operation
12/18/2014	7:00 - 7:15	0.25	WO/REP	48		P		SAFETY = JSA.
	7:15 - 10:00	2.75	WO/REP	30		P		ROAD RIG TO LOCATION. MIRU.
	10:00 - 17:00	7.00	WO/REP	31		P		FCP & FTP = 100#. CNTRL TBNG W/ 20BBLS TMAC. CNTRL CSNG W/ 20BBLS TMAC. NDWH. UN-LAND TBG TO SEE IF IT WAS STUCK (TBG STUCK). STRIP IN 2-3/8" X 6' L-80 PUP JT. LAND TBG BACK ON HANGER. NUBOP. R/U FLOOR & TBNG EQUIP. UN-LAND TBNG. REMOVE HANGER. P/U 1JT 2-3/8" L-80 TBNG. WORK STUCK PIPE.\n\nWORK TBNG FOR +/- 2HRS & IT FINALLY POPPED FREE. MIRU SCANNERS. POOH WHILE SCANNING 194JTS 2-3/8" L-80 TBNG. SWIFN. DRAIN ALL EQUIP. SWIFN.
12/19/2014	7:00 - 7:15	0.25	WO/REP	48		P		SAFETY = JSA.
	7:15 - 10:30	3.25	WO/REP	31	I	P		FCP = 120#. SITP= 320#. OPEN CSNG TO FLOWBACK TANK. CNTRL TBG W/ 25BBLS TMAC. R/U SCANNER. CONT POOH WHILE SCANNING REMAINING 154JTS 2-3/8" L-80 TBNG. TOTAL TBNG SCANNED = 348JTS. SCAN RESULTS AS FOLLOWS:\n\nY-BND = 187JTS 2-3/8" L-80.\nR-BND = 161JTS 2-3/8" L-80. DUE TO WALL LOSS & PITTING. BAD INTERVALS FROM JT#3 THRU JT# 107 & JT# 268 THRU JT# 348. VERY HEAVY EXTERNAL SCALE ON JT# 246 THRU JT#248. TBNG WAS STUCK IN THAT SAME INTERVAL.\nRDMO SCANNERS. \n
	10:30 - 17:00	6.50	WO/REP	31	I	P		P/U & RIH W/ 3-7/8" MILL, BIT SUB & 356JTS 2-3/8" L-80 TBNG. TALLY WHILE RIH. FALL THRU BRIDGE @ 11,014'. CONT RIH. EOT @ 11,281' DID NOT T/U. BOTTOM PERF @ 11,219'. POOH 10 JTS TBNG. SWIFN. DRAIN EQUIP. CSG TO SALES. LOCK OUT RAMS. PREP FOR AIR-FOAM C/O IN THE A.M. SDFN.
12/20/2014	7:00 - 7:15	0.25	WO/REP	48		P		SAFETY = JSA.
	7:15 - 7:30	0.25	WO/REP	31	I	P		FCP= 150#. SITP= 50#. CNTRL TBG W/ 15BBLS TMAC. OPEN CSG TO FLOWBCK TANK. TIH 10JTS TBNG. EOT @ 11,281' W/ 356JTS 2-3/8" L-80 TBNG IN THE HOLE. INSTALL TIW VALVE.
	7:30 - 9:00	1.50	WO/REP	31	H	P		MIRU FOAM-AIR UNIT. BREAK CONV CIRC. GOOD FOAM COMING BACK. WELL CIRC CLEAN. CNTRL TBG W/ 20BBLS TMAC. LET CSG FLOW (WASHINGTON RUBBER INSTALLED).
	9:00 - 16:30	7.50	WO/REP	31	I	P		L/D 25JTS TBNG NOT NEEDED FOR PRODUCTION. POOH W/ 331JTS 2-3/8" L-80 TBNG. L/D MILL & BIT SUB. P/U & RIH W/ 1.875" XN-NOTCH COMBO NIPPLE + 331JTS 2-3/8" L-80 TBG. BROACH TBG WHILE RIH W/ 1.910" BROACH. LAND TBG ON HANGER. R/D FLOOR & TBG EQUIP. NDBOP. NUWH. SWI. RDMO. TBNG LANDED AS FOLLOWS:\n\nKB= 26.00'\nHANGER= .83'\n331JTS 2-3/8" L-80 Y-BND TBNG= 10472.26'\n1.875" XN-NOTCH COMBO NIPPLE= 1.10'\nEOT @ 10500.19'\n\nTWLTR= 45BBLS

RECEIVED: Jan. 12, 2015